Voluntary Remediation Program Semiannual Progress Report

Prepared for
Former MacGregor Golf Company Site
HSI Site No. 10398
Albany, Georgia
July 30, 2014

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Submitted to the Georgia Environmental Protection Division

on behalf of Brunswick Corporation Albany Sport Co. Albany Partners, LLC



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Introduction

This Semiannual Progress Report for the Former MacGregor Golf Company Site (Site) was prepared by Brown and Caldwell (BC) on behalf of Brunswick Corporation, Albany Sport, Co., and Albany Partners, LLC (the Group) for submittal to the Response and Remediation Program of the Land Protection Branch of the Georgia Environmental Protection Division (EPD). The Site is located at 1601 South Slappey Drive in Albany, Dougherty County, Georgia (Figure 1). The Site is a participant in EPD's Voluntary Remediation Program (VRP) and is listed on EPD's Hazardous Site Inventory (HSI) as Site No. 10398. This report describes the work performed related to the Site from the last Semiannual Progress Report dated January 30, 2014 through July 30, 2014.

1.1 Background

The Site was accepted into the VRP on July 30, 2012. The Site history, description, regulatory history, and previous environmental work are described in detail in the Compliance Status Report (CSR [BC 2006]), Revised CSR and Corrective Action Plan (CAP [BC 2008]), and Revised CSR and CAP Addendum (BC 2009) submitted in compliance with the former Hazardous Site Response Act (HSRA) Program (now part of EPD's Response and Remediation Program). Additionally, soil and groundwater data were also submitted to the EPD in the April 2011 VRP Application, February 2012 Revised VRP Application, and Semiannual Progress Reports since January 2013. In summary, since 2002, the Group has conducted zero valent iron pilot testing in the source area, soil and groundwater delineation, and groundwater monitoring.

1.2 Report Organization

This report presents the work conducted from January 30, 2014 to July 30, 2014, and includes the results of groundwater level measurements, temporary well installation, and groundwater sampling.

This report is organized into eight sections. The present section references the project background and provides an outline of the report. The work performed during this period is described in Section 2.0, and Section 3.0 presents the results of the work conducted this period. Section 4.0 presents the updated Conceptual Site Model (CSM). Future work presently anticipated to complete the VRP objectives is presented in Section 5.0. The project Professional Engineer's services this period are summarized in Section 6.0. Limitations associated with the use of this report are noted in Section 7.0 and references cited are provided in Section 8.0.

Work Performed this Period

Work at the Site since the submittal of the last Semiannual Progress Report dated January 30, 2014 involved groundwater assessment and consisted of the following tasks:

- Acquisition of a Utility Encroachment Permit from the City of Albany for drilling in a road right-of-way
- Groundwater level measurements
- Installation and sampling of temporary monitoring wells in the vicinity of monitoring wells MW-11, MW-19, and MW-24.

The work conducted this period was designed to delineate chromium to the south of monitoring well MW-19, to the west northwest of monitoring well MW-24, and to characterize the extent of chromium in groundwater around monitoring wells MW-11, MW-19, and MW-24 in support of remedial design. These activities are discussed in the following sections and a Site plan showing the existing monitoring well locations is provided as Figure 2. The field work was completed in March and June 2014.

2.1 Permitting

An application for a Utility Encroachment Permit was made to the City of Albany requesting authorization to install temporary monitoring wells in the right-of-way along the north and south sides of Industry Avenue in order to delineate groundwater concentrations south of monitoring well MW-19. The permit was approved by the City on March 12, 2014.

2.2 Groundwater Level Measurements

Groundwater levels were measured in the monitoring wells at the Site and in off-site Spartan wells MW-1 and MW-2 on March 26 and June 4, 2014. The depth to groundwater was measured in 14 upper water bearing zone wells (MW-1 through MW-4, MW-10 through MW-14, MW-18, MW-19, MW-22, MW-23 and MW-25) and 11 lower water bearing zone wells (MW-5 through MW-7, MW-9, MW-15 through MW-17, MW-24, MW-26, Spartan MW-1 and Spartan MW-2) at the Site. Groundwater levels were also measured in four upper water bearing temporary wells (TW-2, TW-9, TW-10 and TW-15) and three lower water bearing temporary wells (TW-11, TW-23 and TW-24) installed in March 2014, and four upper water bearing temporary wells (TW-31, TW-35, TW-41 and TW-42) installed in June 2014. All measurements were completed using a Heron 100-foot water level meter. The temporary wells were allowed to equilibrate for at least 24 hours following purging and other monitoring activities prior to gauging. The measured depths to water were recorded as shown on Table 1. The downhole portion of the water level meter was decontaminated with Alconox® and rinsed with distilled water between wells.

The measured depths to water and the surveyed elevations of the existing and temporary monitoring wells were used to calculate the groundwater elevations and prepare potentiometric surface maps for the upper and lower water bearing zones.

2.3 Temporary Monitoring Well Installation

Twenty-eight temporary wells (TW-1 through TW-15, TW-17, TW-18, TW-20 and TW-22 through TW-30) were installed in March 2014, and 13 temporary wells (TW-16 and TW-31 through TW-42) were installed in June 2014. The temporary well construction details are shown in Table 2.

The temporary wells installed in March 2014 were installed in two phases. First at locations close to the existing wells MW-11, MW-19 and MW-24, and then outward as necessary based on the groundwater sample results from the first locations. During the June 2014 event, the same approach was used, with the location of the initial temporary borings being outward from the March temporary wells that exceeded the chromium delineation standard, and then proceeding outward as necessary. Temporary wells were not installed in the area of monitoring well MW-24 during the June event as sufficient delineation was achieved in the March mobilization. The use of this tiered approach was designed to strategically assess the extent of chromium impact in groundwater around the existing permanent monitoring wells.

MW-11. In an effort to further characterize the extent of chromium in groundwater around monitoring well MW-11 for remedial design, seven temporary wells (TW-6 through TW-10, TW-22 and TW-28) were installed in March and five temporary wells (TW-31 through TW-35) were installed in June by solid stem auger (SSA) methods, with the exception that TW-6 was initially attempted by GeoProbe® direct push technology (DPT) and when refusal was encountered prior to reaching the total depth, the remainder of the boring was installed by SSA methods. The temporary wells were installed to a depth of approximately 45 feet below ground surface (bgs) and completed with 1-inch Schedule 40 polyvinyl chloride (PVC) riser and ten feet of ultra-fine pre-packed 0.01-slot PVC screen.

<u>MW-19.</u> In an effort to delineate chromium in groundwater around monitoring well MW-19, 13 temporary wells (TW-1 through TW-5, TW-15, TW-17, TW-18, TW-20, TW-25 through TW-27 and TW-30) were installed in March and eight temporary wells (TW-16, TW-36 through TW-42) were installed in June by DPT, SSA and/or hollow stem auger (HSA) methods to depths between 35 feet and 45 feet bgs. The temporary wells were completed in a similar manner to those around MW-11. Sampling locations in the southern right-of-way of Industry Avenue were also planned; however, they could not be installed due to the presence of overhead and underground utilities already present in the right-of way.

<u>MW-24.</u> To further characterize the extent of chromium in groundwater around monitoring well MW-24 for remedial design, seven temporary wells (TW-11 through TW-14, TW-23, TW-24 and TW-29) were installed in March by DPT and/or SSA methods to a depth of approximately 60 feet bgs. The temporary wells were completed in a similar method to those around MW-11.

Associated Activities. To characterize the soil at the Site to support future remedial design, continuous 5-foot cores were collected from two borings, TW-1 and TW-11. Soil type, moisture content, and odor were observed and recorded for these borings. The boring logs for these two wells and the well construction diagrams for all temporary wells are included as Appendix A.

One equipment blank was collected during from the decontaminated GeoProbe® sampling rods during each drilling event in March and June 2014, and these were analyzed for the same constituents as the groundwater samples.

The horizontal locations of the temporary wells were measured using a Trimble GPS unit with sub-foot accuracy. In addition, six temporary wells (two wells from each area of MW-11, MW-19 and MW-24) were surveyed using laser level surveying equipment to establish vertical elevations, such that groundwater elevations could be calculated and used for potentiometric maps.

2.4 Groundwater Sampling

Groundwater samples from the temporary wells were collected and analyzed as described below.

2.4.1 Sample Collection

Following installation of the temporary wells, the wells were developed using a peristaltic pump until the turbidity of the purged groundwater had been reduced and the water was visually free of suspended sediment. Following development, the temporary wells were purged using low flow/low volume (micro

purging) techniques (i.e., bladder pump with disposable polyethylene tubing). During purging, groundwater parameters (turbidity, dissolved oxygen [DO], pH, conductivity, oxidation-reduction potential [ORP] and temperature) were continuously monitored and recorded on the Field Data Sheets included in Appendix B. A summary of the field measurements is provided in Table 3. Water level measurements were also recorded during purging to limit drawdown and effort was made to ensure that the rate of groundwater withdrawal did not exceed the rate of recharge in the wells.

The groundwater samples were collected once stabilization occurred, which was indicated by no increasing or decreasing trends in groundwater parameters for three successive readings and a turbidity of less than 10 NPD was achieved prior to collection of all the groundwater samples with the exception of the samples collected from temporary wells TW-7 and TW-35, where measured turbidities were 29.1 NTU and 33.10 NTU, respectively. Since at least five well volumes of groundwater had been removed and the remaining water quality parameters had stabilized, groundwater samples were collected even though turbidity was measured greater than 10 NTU in these temporary wells. In addition, samples were collected from these temporary wells for dissolved chromium analysis if needed. The samples were collected directly from the pump discharge into the laboratory-prepared sample bottles, sealed, placed on ice, and delivered to a certified laboratory for analysis. The groundwater samples were also field-analyzed for hexavalent chromium using HACH test kits and the results were recorded on the groundwater sampling forms included in Appendix B. The HACH test results were used as a screening tool to facilitate planning for subsequent well placement prior to receiving the laboratory results and making final decisions.

Quality assurance/quality control (QA/QC) samples were also collected as follows:

- Duplicate samples were collected from TW-2 and TW-11 during the March 2014 sampling event and from TW-33 and TW-41 during the June 2014 sampling event.
- Two equipment blanks were collected during the March 2014 sampling event and one equipment blank was collected during the June 2014 sampling event.

2.4.2 Sample Analysis

After collection, the samples were immediately placed on ice and delivered to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for analysis. Copies of the completed chain-of-custody forms are included in Appendix C with the laboratory reports. The groundwater samples collected from the temporary wells in March and June 2014 and associated duplicate and equipment blank samples were analyzed for total chromium using United States Environmental Protection Agency (USEPA) Method 6010B, and total hexavalent chromium using USEPA Method SW 7196.

The stipulation letter documenting AES's certification to perform these analyses is provided in Appendix D.

2.5 Temporary Well Abandonment

The temporary wells were abandoned following groundwater sample collection. The well casing and screen were removed, and the boreholes were filled with a grout/bentonite mixture.

Results of Work this Period

This section presents the results of the work completed this period outlined in Section 2. Results of the groundwater level measurements and groundwater sampling are discussed below.

3.1 Groundwater Elevation Data

The well construction data, top of casing elevations and groundwater level measurements for the permanent monitoring wells and the temporary wells that were surveyed are presented in Table 1. The measured depths to water and the surveyed elevations of the monitoring wells were used to calculate the groundwater elevations in the upper and lower water bearing zones. Potentiometric maps of the groundwater surface in the upper and lower water bearing zones in March and June 2014 are presented on Figures 3 through 6.

The groundwater elevations measured in this reporting period were lower than those measured earlier in 2014 and over the past two years. On average, the difference in groundwater elevations between the January and June 2014 gauging events was between 4 feet and 7 feet. The mounding of the upper water bearing zone in the area of wells MW-4, MW-22, MW-23 and MW-25 that was observed from January 2012 to July 2013 was not present in the March and June 2014 gauging events.

The groundwater flow in the upper water bearing zone appears to be predominantly to the south; however, given the flat groundwater gradient at this Site, small water level fluctuations between gauging events result in the appearance of very localized changes in groundwater flow direction. The flat groundwater gradient is easily influenced by rainfall as large portions of the Site are impervious, resulting in uneven recharge of the upper water bearing zone during rain events. In the March 2014 sampling event, the groundwater gradient is primarily to the south-southeast in the western portion of the Site, with some northwesterly flow in the eastern portion of the Site in the area of wells MW-1, MW-2, MW-12 and MW-13 (Figure 3). In the June 2014 event, the groundwater in the upper water bearing zone appears to flow more to the southwest, except in the area of monitoring wells MW-1, MW-2, MW-12 and MW-13 where groundwater flows radially from MW-1 (Figure 4).

The groundwater in the lower water bearing zone appears to flow predominantly toward the northeast. As with the upper water bearing zone, the groundwater gradient is fairly flat and subject to fluctuations in response to localized events (e.g., rainfall). In the March 2014 event, water level elevations indicate east to northeasterly groundwater flow across the Site except at the northern boundary (around MW-24, Spartan MW-1 and Spartan MW-2) where a very localized flow to the southeast is indicated (Figure 5). In June 2014, the groundwater gradient flows outward from the area of wells MW-5, MW-6, Spartan MW-1 and Spartan MW-2 to the northeast and southwest (Figure 6).

Outside of localized water level fluctuations, the groundwater gradients observed in this reporting period were similar to those observed in previous reporting period and the predominant groundwater flow directions appear consistent.

3.2 Groundwater Sampling Results

Groundwater samples were collected from temporary wells TW-1 through TW-15 and TW-17, TW-18, TW-20 and TW-22 through TW-30 in March 2014 and from temporary wells TW-16 and TW-31 through TW-42 in June 2014. The results of groundwater parameters measured in the field are summarized in Table 3, and

chemicals detected in laboratory analyses for these sampling events are summarized in Table 4. Chemical detections from historical groundwater sampling events are presented in Table 5. The tables show the sample collection dates, reported concentrations, laboratory reporting limits where a specific constituent was not detected, and the applicable site-specific delineation and cleanup standards. Figures 7, 8 and 9 present the groundwater chromium concentrations for the temporary wells installed around MW-11, MW-19 and MW-24, respectively. The groundwater sampling field forms and the laboratory analytical reports are included as Appendices B and C, respectively. The results of the laboratory analyses are discussed below.

3.2.1 Area Around Monitoring Well MW-11

Groundwater samples collected from temporary wells TW-6 through TW-10, TW-22 and TW-28 in March 2014 contained total chromium concentrations ranging from less than the laboratory reporting limit of 0.01 milligrams per liter (mg/L, TW-7) to 0.039 mg/L (TW-28). Trivalent chromium was detected in four (TW-6, TW-9, TW-10 and TW-28) of the seven temporary wells at concentrations ranging from 0.011 mg/L (TW-10) to 0.019 mg/L (TW-6). Hexavalent chromium was detected in three (TW-8, TW-22 and TW-28) of the seven temporary wells at concentrations of 0.013 mg/L, 0.017 mg/L and 0.024 mg/L, respectively. The total chromium delineation standard (0.10 mg/L) and trivalent chromium delineation standard (0.01 mg/L) were met in all the temporary wells sampled during the March event. The groundwater samples collected from all the temporary wells sampled during the March event also met the hexavalent chromium delineation standard (0.01 mg/L) except for the samples collected from temporary wells TW-8, TW-22 and TW-28 located southeast of monitoring well MW-11.

Based on the March 2014 groundwater results, five additional temporary wells (TW-31 through TW-35) were installed further southeast of MW-11 in June 2014 in an effort to delineate the hexavalent chromium concentrations detected above the standards in the samples from temporary wells TW-8, TW-22 and TW-28. The groundwater samples collected in June 2014 from these new temporary wells contained total chromium concentrations ranging from less than the laboratory detection limit (TW-32 through TW-35) to 0.024 mg/L (TW-31). Trivalent and hexavalent chromium were detected in one (TW-31) of the five temporary wells at concentrations of 0.011 mg/L and 0.013 mg/L, respectively. The total chromium delineation and cleanup standards as well as the trivalent chromium cleanup standard were met in all temporary wells sampled. The delineation and cleanup standard for hexavalent chromium, and the delineation standard for trivalent chromium were met in samples from all temporary wells except that from temporary well TW-31.

3.2.2 Area Around Monitoring Well MW-19

In March 2014, groundwater samples collected from temporary wells TW-1 through TW-5, TW-15, TW-17, TW-18, TW-20, TW-25 through TW-27 and TW-30 contained total chromium concentrations ranging from less than the laboratory reporting limit of 0.01 mg/L (TW-15) to 0.199 mg/L (TW-20). Trivalent chromium was detected in nine of the 13 temporary wells at concentrations ranging from 0.011 mg/L (TW-25) to 0.022 mg/L (TW-27). Hexavalent chromium was detected in 12 of the 13 temporary wells at concentrations ranging from 0.020 mg/L (TW-2) to 0.185 mg/L (TW-20). Total chromium concentrations were above the cleanup standard in samples from temporary wells TW-1, TW-4, TW-17, TW-18 and TW-20. Trivalent chromium was not detected above the cleanup standard in any of the temporary wells sampled. Hexavalent chromium was detected above the cleanup standard in all the temporary wells sampled except TW-15.

Based on the March 2014 groundwater results, eight additional temporary wells (TW-16 and TW-36 through TW-42) were installed further beyond monitoring well MW-19 in June 2014 in an effort to delineate the total and/or hexavalent chromium detected above the cleanup standards in the initial round of temporary well installation. The June 2014 groundwater results indicated concentrations of total chromium in the temporary wells ranging from less than the reporting limit (TW-38, TW-40 and TW-42) to 0.049 mg/L (TW-41); all detections were less than both the cleanup and delineation levels for total chromium. Trivalent chromium was detected in three (TW-16, TW-36 and TW-41) of the eight temporary wells at concentrations

of 0.018 mg/L, 0.012 mg/L and 0.012 mg/L, respectively; these concentrations are below the cleanup standard but exceed the delineation standard. Hexavalent chromium was detected in three (TW-36, TW-39 and TW-41) of the eight temporary wells at concentrations of 0.028 mg/L, 0.034 mg/L and 0.037 mg/L, respectively, which exceed both the delineation and cleanup standards .

3.2.3 Area Around Monitoring Well MW-24

Groundwater samples collected from temporary wells TW-11 through TW-14, TW-23, TW-24 and TW-29 in March 2014 contained total chromium concentrations ranging from less than the laboratory reporting limit (TW-23 and TW-29) to 1.74 mg/L (TW-11). Trivalent chromium was detected in two of the seven temporary wells at concentrations of 0.011 mg/L (TW-12) and 0.250 mg/L (TW-11). Hexavalent chromium was detected in four (TW-11, TW-13, TW-14 and TW-24) of the seven temporary wells at concentrations ranging from 0.013 mg/L (TW-24) to 1.49 mg/L (TW-11). The total and trivalent chromium cleanup standards were met in all the temporary wells sampled except TW-11 (total chromium only). Hexavalent chromium was detected above the cleanup standard in the groundwater samples collected from temporary wells TW-11, TW-13, TW-14 and TW-24.

3.2.4 Quality Assurance/Quality Control Samples

No chemicals were detected in the equipment blank samples and the results from analysis of the duplicate samples were similar to those from the original samples. Thus, the QA/QC samples did not indicate impact to the Site results from field or laboratory methods.

3.2.5 Summary

Based on analysis of samples collected in the temporary wells and previous groundwater sampling results, delineation has been achieved for chromium in groundwater to the north, east and west. However, delineation has not yet been achieved at the south end of the Site beyond temporary wells TW-2, TW-16, and TW-41.



Updated Conceptual Site Model

This section presents the updated CSM developed for the Site in order to facilitate development of the Site remedial action objectives. Also discussed in this section is the fate and transport model that may be used to help demonstrate compliance with the Site cleanup standards under the VRP.

4.1 Elements of the Conceptual Site Model

A three-dimensional CSM was originally developed for the Site's VRP Application to illustrate the approximate extent of volatile organic compounds (VOCs) and inorganics in the subsurface, and the potential exposure pathways and receptors at the Site. The CSM has been updated to reflect current conditions at the Site. Figures 10 and 11 illustrate plan view and profile diagrams of the CSM, respectively.

4.1.1 Ground Surface Features

The Site topography is relatively flat with elevations ranging from 191 to 204 feet above mean sea level (amsl). Stormwater run-off flows primarily towards the intermittent drainage ditch that runs in a westerly direction from north of the former disposal area along the tree line, to the western property boundary. The ditch ends in an on-site intermittent detention basin. The intermittent drainage ditch and detention basin are normally dry, except following significant rain events. Both features also receive stormwater run-off from off-site sources, including a railroad right-of-way to the west.

Soil samples collected from the intermittent ditch and detention basin in 1998, 1999, 2000, 2008, and 2009 indicated elevated concentrations of nickel and chromium. Based on the flow direction of stormwater at the Site, the metals appear to have migrated from the former waste disposal area to the drainage ditch.

4.1.2 Subsurface Features

4.1.2.1 Vadose Zone and Upper Water Bearing Zone

The upper water bearing zone consists predominantly of silty sands, sandy silts, clays and chert of the weathered limestone residuum as illustrated on Figure 11. The thickness of the unconsolidated sediments at the Site is approximately 40 to 50 feet with the thin layers of chert occurring at depths of 18 to 45 feet bgs. Beneath the chert, sediments increase in clay content with clay layers ranging from 1 to 6 feet thick. The lower boundary to this zone is the chalky limestone that occurs in the uppermost Ocala Limestone at 50 to 55 feet bgs. In the most recent gauging event (June 2014), groundwater was encountered in the upper water bearing zone between about 27 and 32 feet bgs.

According to previous reports, waste was poured or spread onto the ground surface in the former waste disposal area. The VOCs and inorganics released at the ground surface would be expected to migrate vertically under the influence of gravity, with some horizontal spreading with depth through the unsaturated zone and into the saturated zone. Figures 10 and 11 show approximately where VOCs (MW-4 area) and inorganics (MW-11 and MW-19 areas) are identified in the upper water bearing zone above the groundwater delineation and/or cleanup standards.

4.1.2.2 Semi-Confining Unit

Between the depths of approximately 50 to 55 feet bgs, a chalky limestone occurs that grades with depth to increasing cementation and induration and decreasing permeability. This layer is laterally continuous across



the Site and is interpreted to be a hydraulic boundary to the lower water bearing zone encountered at about 60 feet bgs. However, based on the hydraulic properties (i.e., vertical groundwater velocity, vertical gradient and vertical hydraulic conductivity) of the semi-confining unit and concentrations of VOCs and inorganics in the lower water bearing zone, vertical leakage occurs through the chalky limestone from the upper water bearing zone to the lower water bearing zone.

4.1.2.3 Lower Water Bearing Zone

At approximately 60 feet bgs, the chalky limestone increases in competency and becomes a porous and permeable fossiliferous limestone of the Ocala Limestone that extends to a depth of approximately 170 feet bgs. This unit, the Upper Floridan aquifer, is a principal water supply aquifer and previously served to supply irrigation and fire water to the Site. The Upper Floridan aquifer is confined above and below. The upper confining zone is the chalky limestone described above, and the lower confining zone is the calcareous clayey Lisbon formation.

In the June 2014 gauging event, potentiometric levels in the wells screened in the lower water bearing zone were between about 32 and 43 feet bgs. VOCs (MW-15 area) and inorganics (MW-24 area) are present in the lower water bearing zone; specifically, the upper portion of the permeable fossiliferous limestone as seen in well MW-15 at a depth of approximately 70 feet bgs.

4.1.3 Contaminant Fate and Transport

Moderate to low concentrations of trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC) continue to be detected in MW-4 located immediately downgradient of the source area within the upper water bearing zone. As described in the February 2012 VRP Application, preliminary modeling using Biochlor®, a one-dimensional axial transport model, has been conducted to evaluate potential constituent of concern (COC) migration from this area and to provide a preliminary understanding of the fate and transport of the remaining VOCs observed in groundwater. The preliminary modeling demonstrated that VOC concentrations will continue to decline over time and that the current groundwater plume will continue to contract.

Additionally, a limited interim remedial action consisting of injection of zero valent iron (ZVI) within the upper water bearing zone was conducted in 2003. The interim action created a barrier zone of accelerated attenuation downgradient of monitoring well MW-4. The barrier has most likely resulted in the decrease in VOC concentrations observed in the remaining downgradient monitoring wells.

4.2 Receptors and Exposure Pathways

The potential exposure pathways and receptors are identified on Figures 10 and 11, and are detailed further in the February 2012 Revised VRP Application and the January 30, 2013 Semiannual Progress Report.

Status and Future Work

Work on this project has been directed at meeting the milestones established by EPD in their July 30, 2012 letter approving their application to the VRP. Specifically:

- Horizontal delineation on-site and off-site
- Vertical delineation
- Remediation, where necessary.

The current status of the Site soil and groundwater relative to the VRP delineation and cleanup criteria is discussed below. Near-term steps toward meeting project goals are presented and the updated milestone schedule for this work is presented on Figure 12.

5.1 Delineation Status

5.1.1 Soil Delineation

As discussed in the July 2013 Semiannual Progress Report, horizontal and vertical delineation of cis-1,2-DCE and VC in soil has been achieved. Historical soil results are presented in Table 6.

5.1.2 Groundwater Delineation

5.1.2.1 On-Site Horizontal Groundwater Delineation

VOCs were previously delineated on-site.

With the sampling conducted in March 2014, on-site horizontal delineation of chromium (total, hexavalent, and trivalent) in groundwater at the northern end of the property has been achieved to the north, northwest, and northeast.

It initially appeared that chromium was also delineated at the southern end of the property; however, with the recent detection of chromium in monitoring well MW-19 reported in the January 2014 Semiannual Progress Report, horizontal delineation to the south has been pursued aggressively and is still ongoing. Twenty temporary wells were installed in 2014 to delineate chromium concentrations around and to the south of MW-19. These results indicate that chromium concentrations above the delineation levels have been measured beyond the property line.

5.1.2.2 Off-Site Horizontal Groundwater Delineation

As noted above, following the identification of chromium in MW-19 at concentrations above the delineation standard in late 2013, 20 temporary wells were installed around and to the south of MW-19 this year. Temporary wells were installed along the southern property line and further south off-site in the Industry Avenue right-of-way in an effort to delineate the off-site groundwater impact. Delineation was not achieved in temporary wells TW-2, TW-16 and TW-42 located in the northern right-of-way. Sampling locations in the southern right-of-way of Industry Avenue were planned; however, they could not be installed due to the presence of overhead and underground utilities already present in the right-of way. Given that the delineation standards for all three forms of chromium were met in the sample from TW-15 and the low concentrations measured in the other most southerly sample (TW-41), options related to further delineation to the south are being weighed.



5.1.2.3 Vertical Groundwater Delineation

As discussed in previous semiannual progress reports, vertical delineation of Site COCs in groundwater has been achieved.

5.2 Status Relative to Cleanup Goals

5.2.1 Soil

The Site soil is in compliance with the soil cleanup standards developed for the Site except in the vicinity of borings B-4 and GP-1 (located in the former source area). The concentrations of cis-1,2-DCE and VC in the subsurface soil in borings B-4 and GP-1 (cis-1,2-DCE only) exceed the soil cleanup standards.

5.2.2 Groundwater

Concentrations of trivalent chromium measured at the Site are in compliance with the Site VRP cleanup level (153 mg/L). Areas where other VRP cleanup levels are not met are discussed below.

<u>MW-4</u>. Groundwater concentrations of TCE, cis-1,2-DCE, and VC in monitoring well MW-4 exceed the cleanup standards of 0.038 mg/L, 0.204 mg/L, and 0.0033 mg/L, respectively.

<u>MW-11</u>. Hexavalent chromium concentrations in monitoring well MW-11 and temporary wells TW-8, TW-22, TW-28 and TW-31 currently exceed the cleanup standard of 0.01 mg/L.

MW-19. Total chromium concentrations in monitoring well MW-19 and temporary wells TW-1, TW-4, TW-17, TW-18, and TW-20 currently exceed the cleanup standard of 0.10 mg/L. Hexavalent chromium concentrations in monitoring well MW-19 and temporary wells TW-1 through TW-5, TW-17, TW-18, TW-20, TW-25 through TW-27, TW-30, TW-36, TW-39 and TW-41 currently exceed the cleanup standard of 0.01 mg/L.

<u>MW-24</u>. Total chromium concentrations in temporary monitoring wells TW-11 and TW-14 currently exceed the cleanup standard of 0.10 mg/L. Hexavalent chromium concentrations in monitoring well MW-24 and temporary monitoring wells TW-11, TW-13, TW-14 and TW-24 currently exceed the cleanup standard of 0.01 mg/L.

5.3 Future Work

As total, hexavalent, and trivalent chromium concentrations in groundwater in temporary wells currently exceed delineation standards, additional delineation and/or treatment will be completed in the next reporting period.

Total and hexavalent chromium concentrations in monitoring wells MW-11 (hexavalent only), MW-19, and MW-24 and the associated temporary wells previously discussed currently exceeding the cleanup standards. Therefore, remedial strategies for chromium in groundwater in these areas will be evaluated over the next reporting period and discussed in the Final Remediation Plan.

The presence of TCE, cis-1,2-DCE, and VC in groundwater in monitoring well MW-4 at concentrations exceeding the cleanup standards will be addressed through fate and transport modeling and a uniform environmental covenant (UEC) to restrict the use of groundwater. The POD wells for the VOC impact in groundwater will be presented in the Final Remediation Plan.

During the next reporting period, BC will also continue to evaluate options to bring the soil in the vicinity of B-4 and GP-1 into compliance with the cleanup standards for cis-1,2-DCE and VC. Site-specific information and Biochlor® modeling will be used to determine if the maximum concentrations remaining in soil at the Site will result in exceedances of the applicable cleanup standards at the point of compliance or unacceptable health risks to potential receptors.

The updated milestone schedule is presented on Figure 12. As previously discussed, multiple attempts have been made to horizontally delineate groundwater south of monitoring well MW-19 in order to meet the VRP deadline of July 30, 2014, however, additional delineation and/or treatment will be required. The Final Remediation Plan and Final Cost Estimate for implementing remediation and/or continuing actions will be submitted in the January 2015 Semiannual Progress Report.

Engineer's Services this Period

Table 7 summarizes BC's professional engineer's work on this project since the last submittal to the EPD for this project.

Limitations

This document was prepared solely for Brunswick Corporation, Albany Sport, Co., and Albany Partners, LLC (the Group) in accordance with professional standards at the time the services were performed and in accordance with the contract between the Group and Brown and Caldwell dated September 18, 2013 and amended on February 20, 2014 and April 24, 2014. This document is governed by the specific scope of work authorized by the Group; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by the Group and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.

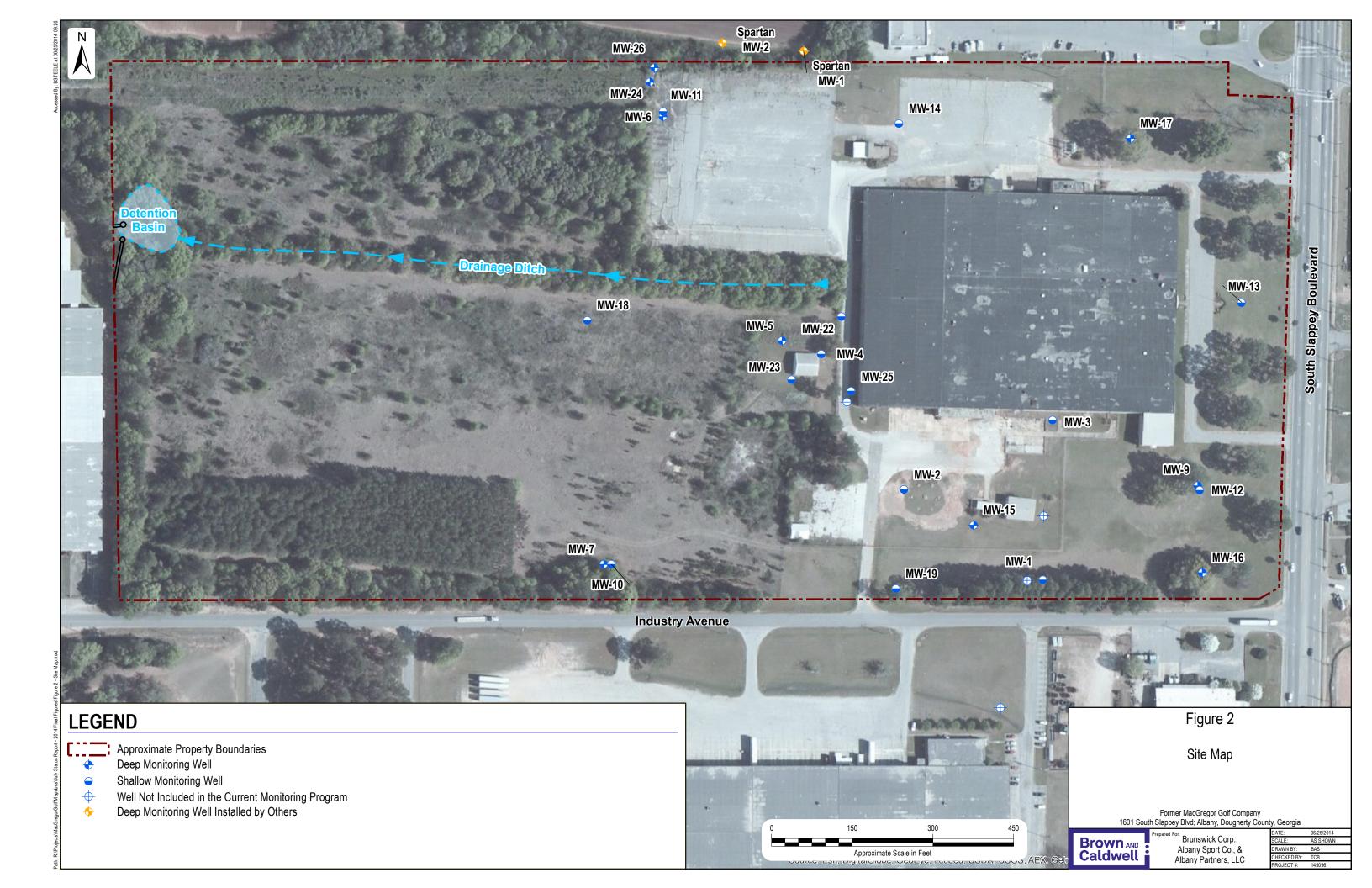
This document sets forth the results of certain services performed by Brown and Caldwell with respect to the property or facilities described therein (the Property). The Group recognizes and acknowledges that these services were designed and performed within various limitations, including budget and time constraints. These services were not designed or intended to determine the existence and nature of all possible environmental risks (which term shall include the presence or suspected or potential presence of any hazardous waste or hazardous substance, as defined under any applicable law or regulation, or any other actual or potential environmental problems or liabilities) affecting the Property. The nature of environmental risks is such that no amount of additional inspection and testing could determine as a matter of certainty that all environmental risks affecting the Property had been identified. Accordingly, THIS DOCUMENT DOES NOT PURPORT TO DESCRIBE ALL ENVIRONMENTAL RISKS AFFECTING THE PROPERTY, NOR WILL ANY ADDITIONAL TESTING OR INSPECTION RECOMMENDED OR OTHERWISE REFERRED TO IN THIS DOCUMENT NECESSARILY IDENTIFY ALL ENVIRONMENTAL RISKS AFFECTING THE PROPERTY.

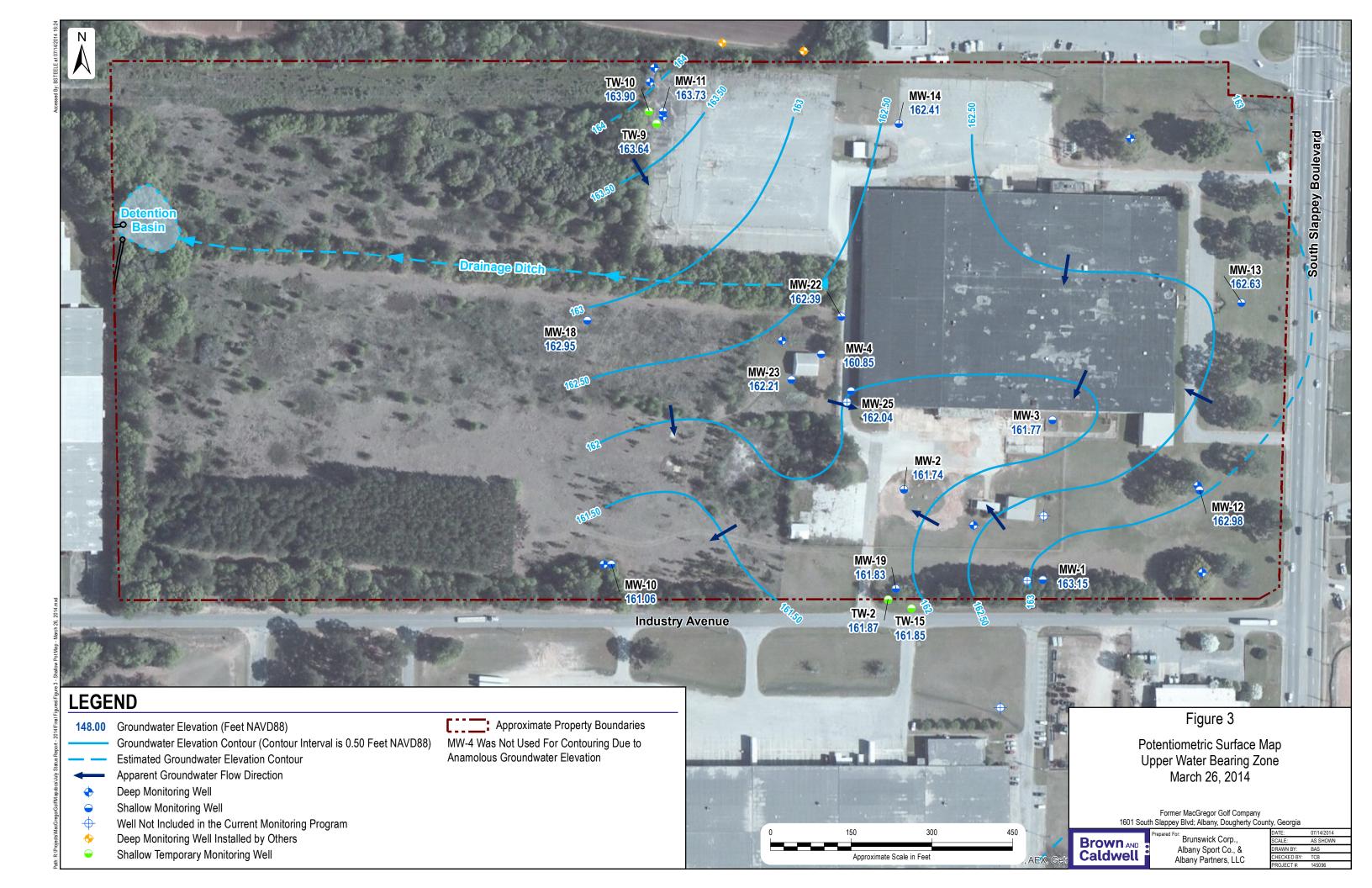
Further, Brown and Caldwell makes no warranties, express or implied, with respect to this document, except for those, if any, contained in the agreement pursuant to which the document was prepared. All data, drawings, documents, or information contained this report have been prepared exclusively for the person or entity to whom it was addressed and may not be relied upon by any other person or entity without the prior written consent of Brown and Caldwell unless otherwise provided by the Agreement pursuant to which these services were provided.

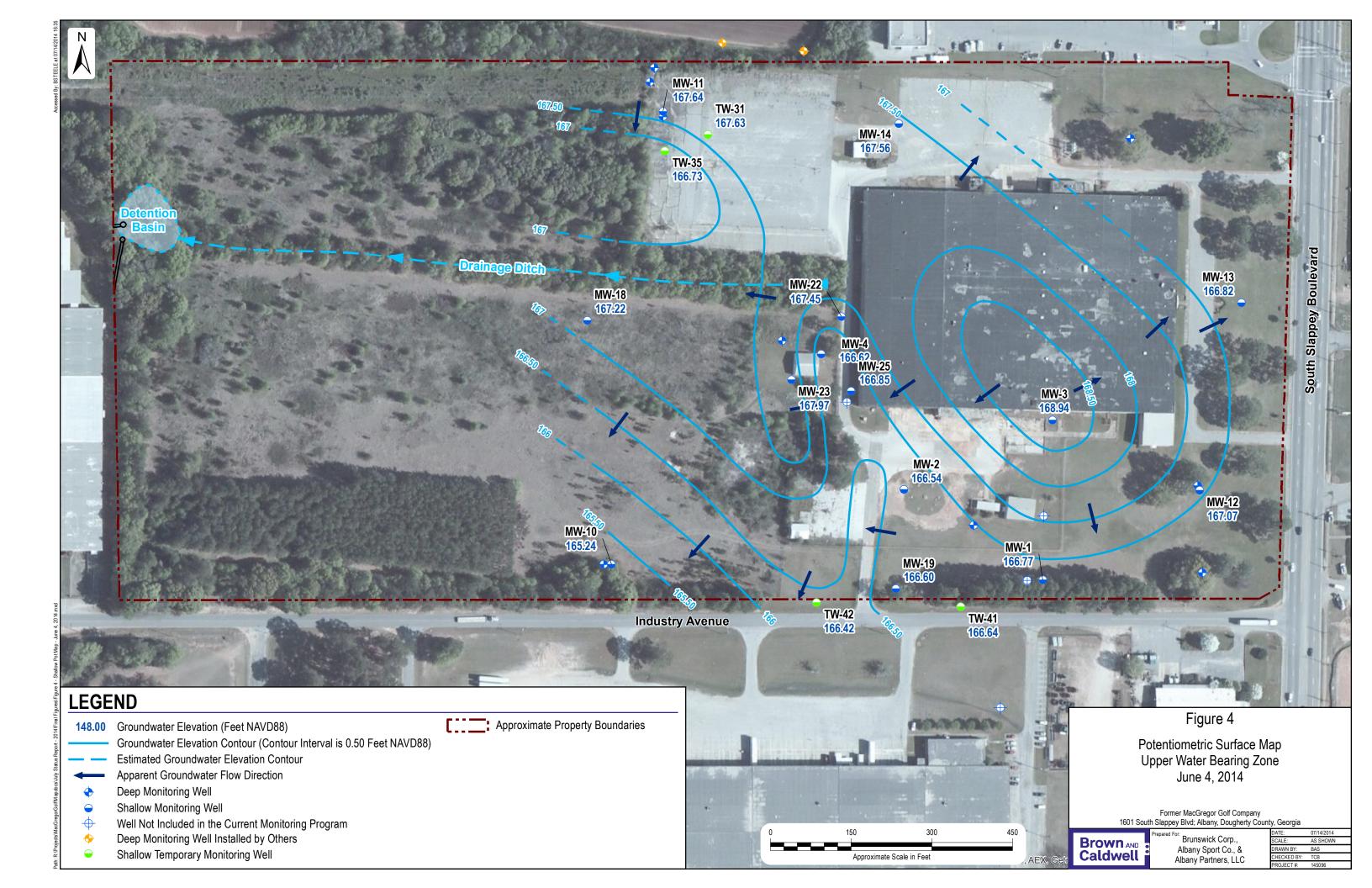
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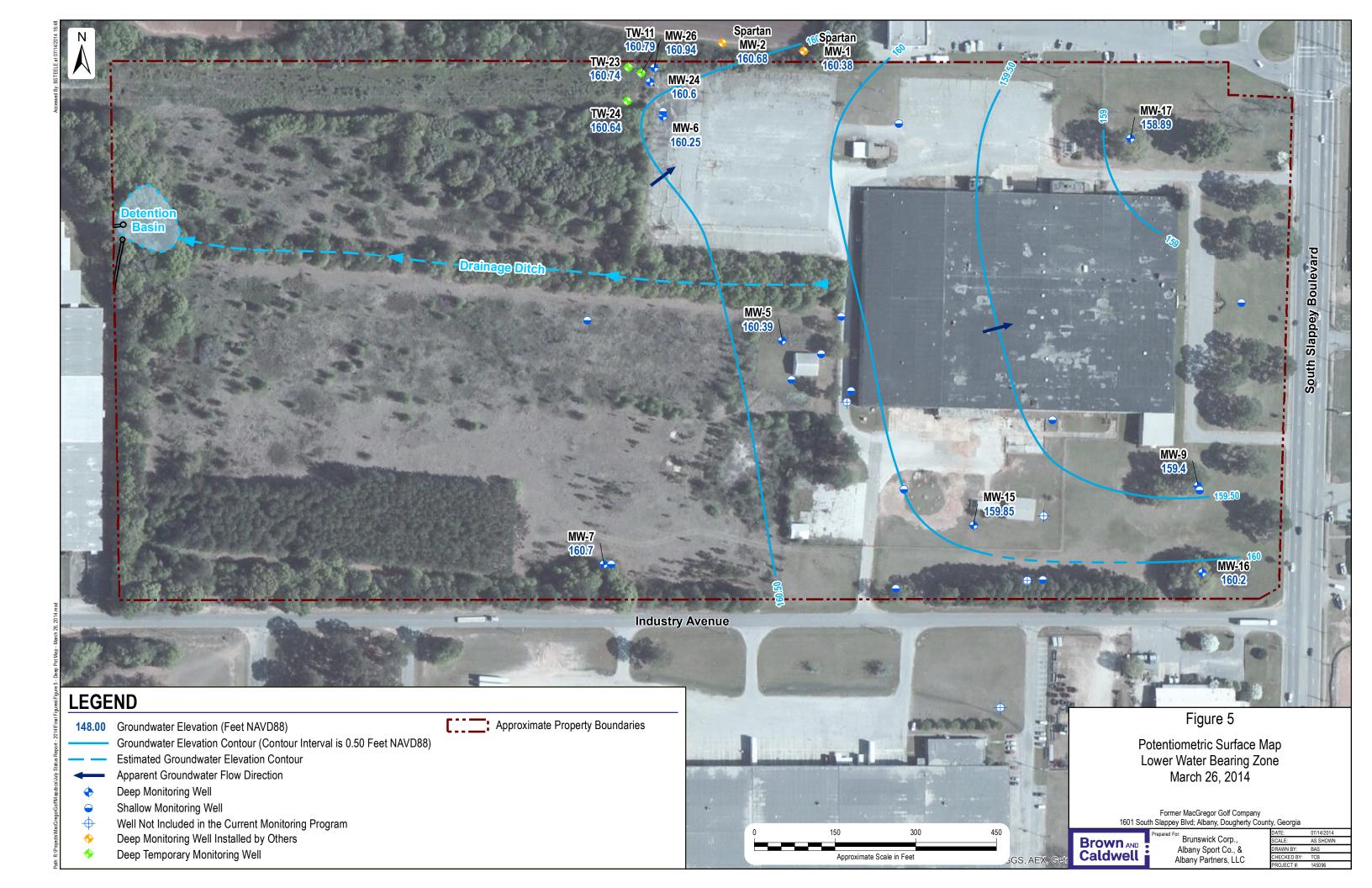
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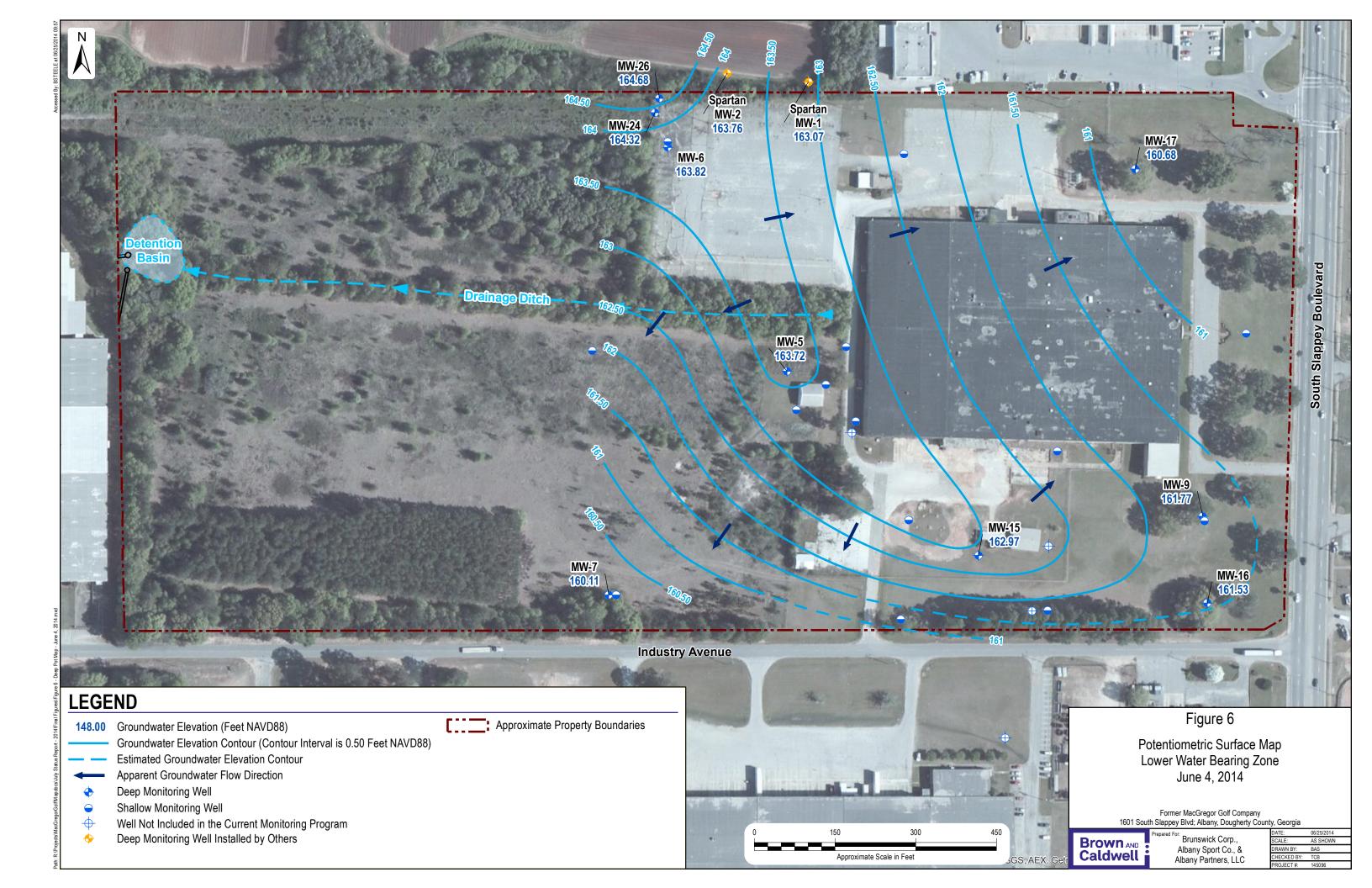


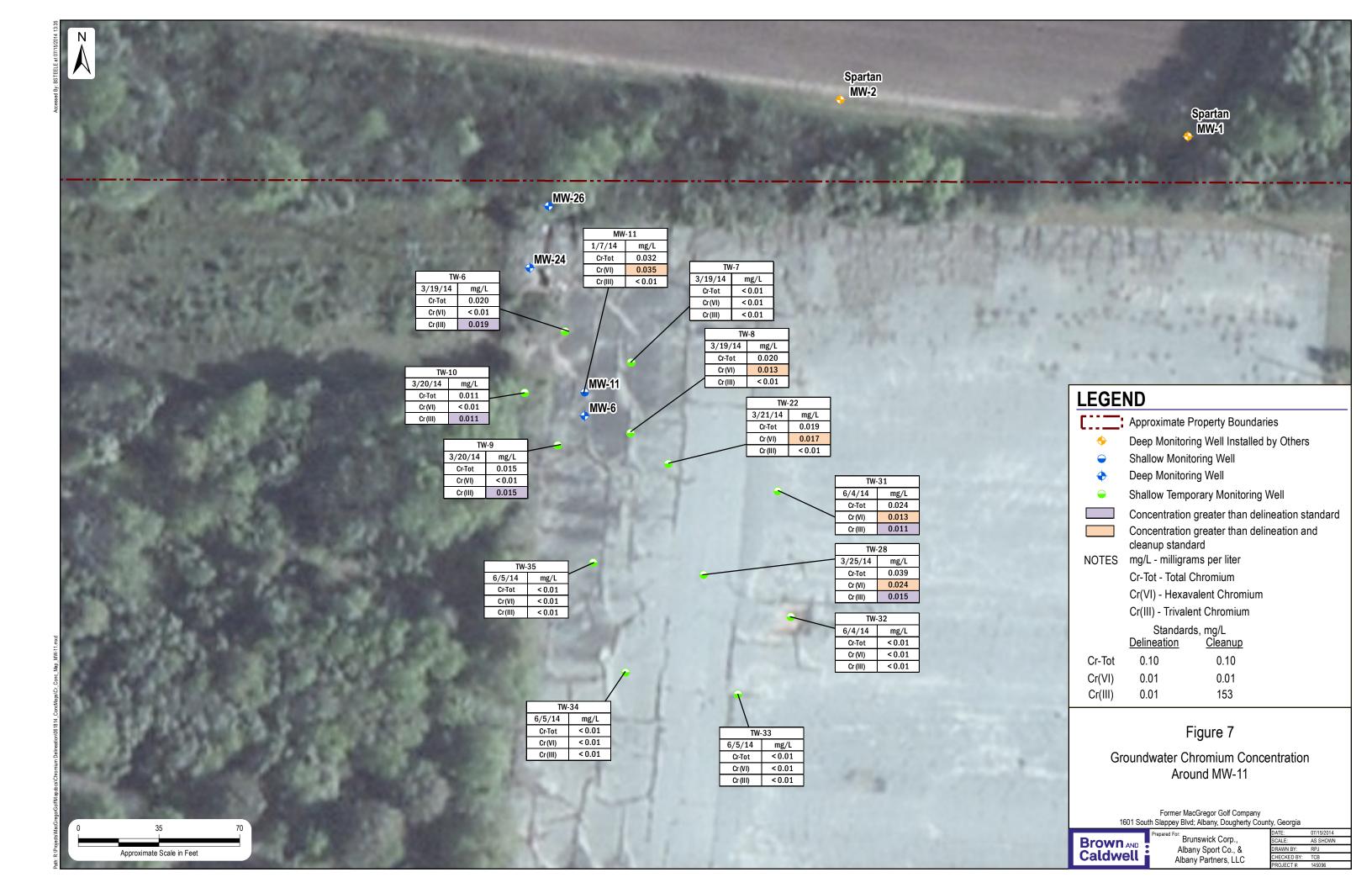


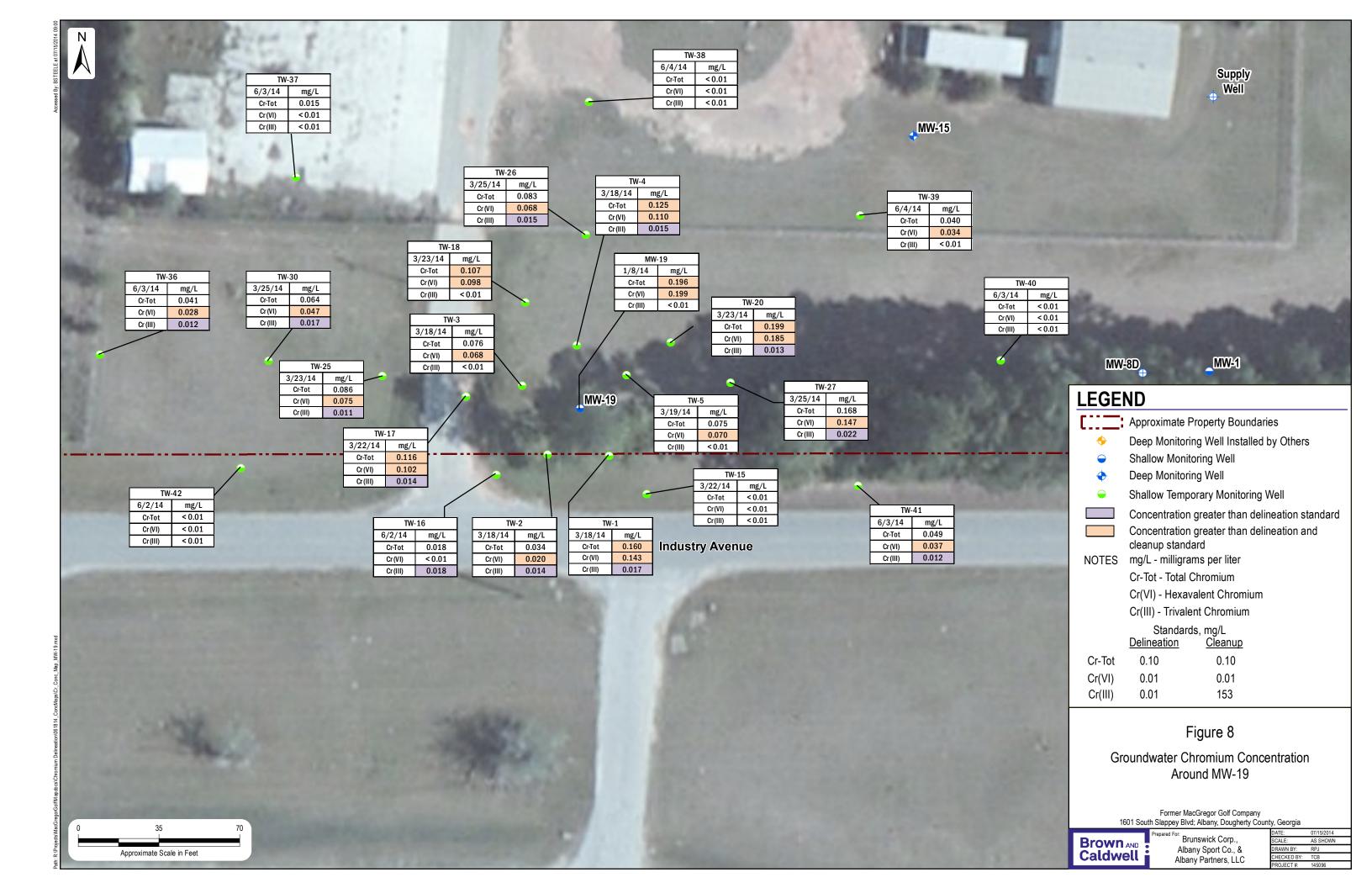


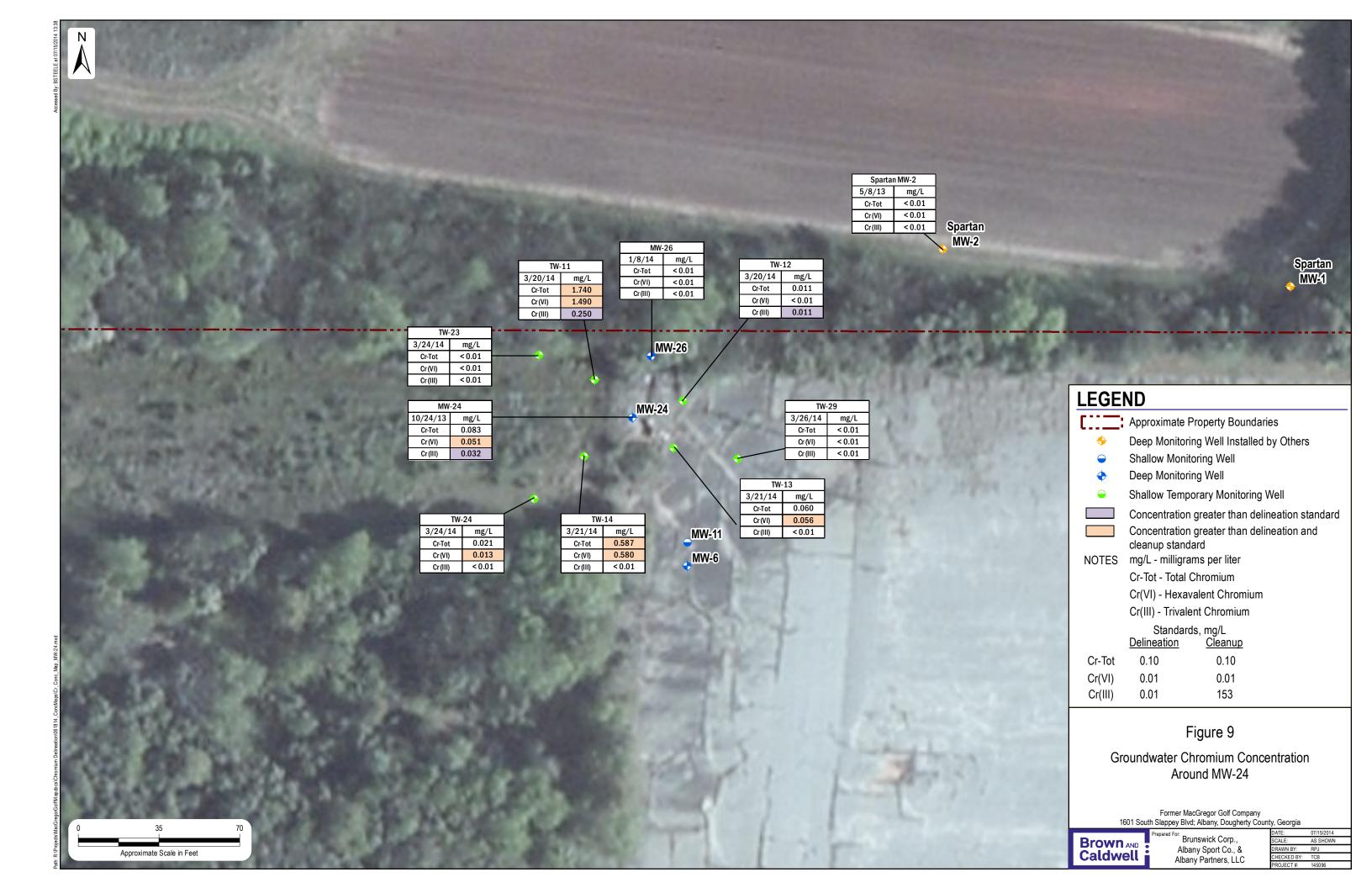












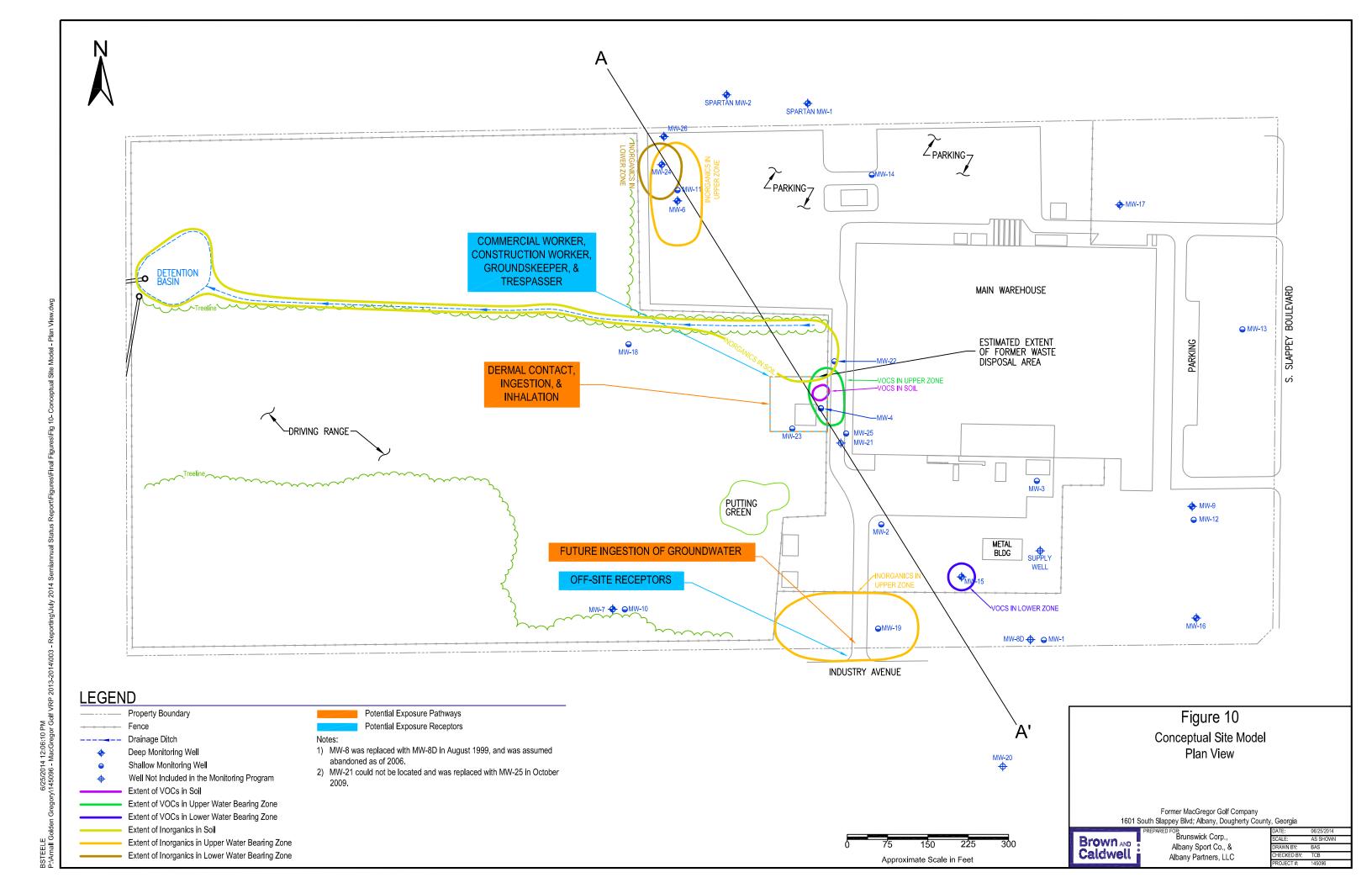


	Figure 12. Updated Milestone Schedule Former MacGregor Golf Company Albany, Georgía																					
		Projected			ear 1: July 20	12 - July 20		Year 2: July 2013 - July 2014				ear 3: July 20	014 - July 201			ear 4: July 2	015 - July 20		Year 5: July 2016 - July 2017			
ID	Task Name	Completion Date	Completion Date		012			013			014							2016 2017				
		•		Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
1	Enrollment in VRP		July 30, 2012																			
2	Preliminary Cost Estimate for Implementation of Remediation & Continuing Actions, and Financial Assurance Demonstration	Within 60 days of Enrollment ^a	March 13, 2013	\times	\setminus	\times																
3	Monthly Groundwater Level Measurements	Within 3 Months of Enrollment	November 6, 2012	\times	> <																	
- Д	Horizontal Delineation of Site COCs (on accessible property)	Within 6 Months of Enrollment	November 29, 2012	\times	\times																	
5	Semiannual Progress Report with Updated CSM	Within 6 Months of Enrollment	January 30, 2013		\times																	
6	Semiannual Progress Report with Updated CSM	Within 12 Months of Enrollment	July 30, 2013				\times															
7	Vertical Delineation of Site COCs	Within 12 Months of Enrollment	May 31, 2013			\times	\times															
8	Semiannual Progress Report with Updated CSM	Within 18 Months of Enrollment	January 30, 2014						\times													
9	Horizontal Delineation of Site COCs (on property previously inaccessible)	Within 24 Months of Enrollment				\times	\times			\times												
10	Semiannual Progress Report with Updated CSM	Within 24 Months of Enrollment	July 30, 2014																			
11	Semiannual Progress Report with Final Remediation Plan, Updated CSM, and Final Cost Estimate for Remediation and/or Continuing Actions	Within 30 Months of Enrollment																				
12	Active remediation, if necessary	Within 36 Months of Enrollment																				
13	Semiannual Progress Report with Updated CSM	Within 36 Months of Enrollment																				
14	Semiannual Progress Report with Updated CSM	Within 42 Months of Enrollment																				
15	Semiannual Progress Report with Updated CSM	Within 48 Months of Enrollment																				
16	Semiannual Progress Report with Updated CSM	Within 52 Months of Enrollment																				
17	Compliance Status Report under the VRP with Certifications	Within 60 Months of Enrollment																				

Indicates due date indicated on VRP Application Form.

Indicates task accomplished.

On-site Horizontal Delineation Off-site Horizontal

Delineation

Vertical Delineation, Final Remediation Plan, and Final Cost Estimate CSR Submittal to VRP with Certifications

Page 1 of 1

^a - Due date for this task was extended per EPD's approval.

Table 1. Well Construction Data and Recent Groundwater Elevations														
Former MacGregor Golf Company														
Albany, Georgia														
	Well Completion Water Northing Eas Well Completion Feet - Georgia Feet - Georgia Well Completion Water Wat				T. I. I. D II. 8	Screened	Open Hole	Top of Casing	March 2	-	June 4, 2014			
Well ID	Date	Bearing	West State Plane	(Feet - Georgia West State Plane	Total Depth ^a (feet)	Interval ^a	Interval ^a	Elevation ^b	Static Depth to Water ^a	Groundwater Elevation ^b	Static Depth to Water ^a	Groundwater Elevation ^b		
		Unit	NAD83)	NAD83)	(1001)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)		
					Upper Wate	er Bearing Zone		I	(7	(7	(7	(
MW-1	6/28/1995	Upper	566051.98	2293023.36	45.88	33.5-48.5	NA	196.54	33.39	163.15	29.77	166.77		
MW-2	6/28/1995	Upper	566220.01	2292765.44	40.19	25-40	NA	196.61	34.87	161.74	30.07	166.54		
MW-3	6/29/1995	Upper	566348.21	2293042.11	46.33	32.50-47.50	NA	198.41	36.64	161.77	29.47	168.94		
MW-4	6/29/1995	Upper	566470.82	2292611.54	46.96	28-41.50	NA	198.43	37.58	160.85	31.81	166.62		
MW-10	7/15/1998	Upper	566080.73	2292221.58	48.37	33.30-48.30	NA	193.75	32.69	161.06	28.51	165.24		
MW-11	7/15/1998	Upper	566921.91	2292317.31	48.30	33-48	NA	200.25	36.52	163.73	32.61	167.64		
MW-12	7/16/1998	Upper	566218.48	2293315.55	45.28	35-50	NA	194.70	31.72	162.98	27.63	167.07		
MW-13	10/22/1998	Upper	566566.74	2293392.86	50.38	35-50	NA	196.48	33.85	162.63	29.66	166.82		
MW-14	10/20/1998	Upper	566899.03	2292756.18	49.71	34.80-49.80	NA	196.99	34.58	162.41	29.43	167.56		
MW-18	6/17/1999	Upper	566533.98	2292176.82	43.70	28.8-43.8	NA	196.49	33.54	162.95	29.27	167.22		
MW-19	6/17/1999	Upper	566035.83	2292750.34	44.12	29-44	NA	193.40	31.57	161.83	26.80	166.60		
MW-21 ^{c, d}	3/11/2003	Upper	NM	NM	38.61	28.61-38.61	NA	196.80	NM	NM	NM	NM		
MW-22	3/11/2003	Upper	566540.86	2292649.02	45.69	35.4-45.4	NA	196.89	34.50	162.39	29.44	167.45		
MW-23	3/11/2003	Upper	566423.91	2292556.49	48.10	37.95-47.95	NA	199.73	37.52	162.21	31.76	167.97		
MW-25 ^d	10/21/2009	Upper	566402.83	2292666.80	39.16	29-39	NA	195.82	33.78	162.04	28.97	166.85		
TW-2 ^e	3/17/2014	Upper	566015.94	2292736.14	35.51	25.51-35.51	NA	193.36	31.49	161.87	NM	NM		
TW-9 ^e	3/19/2014	Upper	566898.95	2292305.58	44.79	34.79-44.79	NA	200.18	36.54	163.64	NM NM			
TW-10 ^e	3/19/2014	Upper	566921.71	2292291.27	44.78	34.78-44.78	NA	200.19	36.29	163.90	NM	NM		
TW-15 ^e	3/21/2014	Upper	565998.92	2292779.18	42.95	32.94-42.95	NA	193.99	32.14	161.85	NM	NM		
TW-31 ^e	6/4/2014	Upper	566879.07	2292400.98	45.25	35.25-45.25	NA	201.28	NM	NM	33.65	167.63		
TW-35 ^e	6/4/2014	Upper	566848.17	2292320.97	45.07	35.07-45.07	NA	200.02	NM	NM	33.29	166.73		
TW-41 ^e	6/4/2014	Upper	566002.49	2292870.78	45.11	35.11-45.11	NA	196.35	NM	NM	29.71	166.64		
TW-42 ^e	6/4/2014	Upper	566010.23	2292603.03	45.00	35.00-45.00	NA	193.33	NM	NM	26.91	166.42		
					Lower Wate	er Bearing Zone			-					
MW-5	7/23/1998	Lower	566495.97	2292539.09	60.50	NA	60-73	199.89	39.50	160.39	36.17	163.72		
MW-6	7/25/1998	Lower	566911.71	2292317.29	60.13	NA	60-73	200.14	39.89	160.25	36.32	163.82		
MW-7	7/22/1998	Lower	566080.91	2292207.62	69.35	60-70	NA	194.22	33.52	160.70	34.11	160.11		
MW-8/8D ^c	8/17/1999	Lower	NM	NM	207.50	197.3-207.3	NA	198.00	NM	NM	NM	NM		
MW-9	7/20/1998	Lower	566227.03	2293312.05	69.28	NA	58.5-73.5	194.68	35.28	159.40	32.91	161.77		
MW-15	10/23/1998	Lower	566153.85	2292894.90	75.38	65.70-75.70	NA	199.23	39.38	159.85	36.26	162.97		
MW-16	10/21/1998	Lower	566065.57	2293320.44	75.47	64.70-74.70	NA	193.61	33.41	160.20	32.08	161.53		
MW-17	6/17/1999	Lower	566871.51	2293186.97	73.81	66-76	NA	198.73	39.84	158.89	38.05	160.68		
MW-20 ^c	8/14/1999	Lower	NM	NM	70.00	60-70	NA	193.31	NM	NM	NM	NM		
MW-24	2/8/2008	Lower	566975.84	2292293.48	58.75	50-60	NA	200.39	39.79	160.60	36.07	164.32		
MW-26	11/26/2012	Lower	567002.52	2292301.47	62.20	52.20-62.20	NA	200.90	39.96	160.94	36.22	164.68		
Spartan MW-1	11/10/2008	Lower	567032.71	2292578.90	68.5	52-67	NA	206.37	45.99	160.38	43.30	163.07		
Spartan MW-2	11/10/2008	Lower	567048.65	2292428.10	65.0	49.5-64.5	NA	205.78	45.10	160.68	42.02	163.76		
Supply Well	1958	Lower	NM	NM	168.0	NA	NA	NM	NM	NM	NM	NM		
TW-11 ^e	3/20/2014	Lower	566992.21	2292277.10	59.74	49.74-59.74	NA	200.54	39.75	160.79	NM NM			
TW-23 ^e	3/24/2014	Lower	567002.88	2292252.96	59.78	49.78-59.78	NA	200.26	39.52	160.74	NM	NM		
TW-24 ^e	3/24/2014	Lower	566940.64	2292250.83	59.68	49.68-59.68	NA	200.15	39.51	160.64	NM	NM		

^a Depth below top of casing.

NA - Not Applicable

NM - Not Measured

NAD83 - North American Datum of 1983



 $^{^{\}rm b}$ Elevation is feet above mean sea level.

 $^{^{\}rm c}$ Wells not gauged or sampled as part of the monitoring program.

 $^{^{\}rm d}$ Well MW-25 replaced MW-21 in 2009.

 $^{^{\}rm e}{\rm Temporary}$ wells were abandoned following survey and water level measurements.

Table 2. Temporary Well Construction Details Former MacGregor Golf Company Albany, Georgia

Albany, Georgia										
Well	Date Installed	Date Abandoned	Installation Method	Screen Interval	Total Depth (ft bgs)					
TW-1	3/17/2014	3/25/2014	(DPT/HSA/SSA) ^a DPT	(ft bgs) ^b 24.95-34.95	34.95					
TW-2	3/17/2014	3/25/2014	DPT	25.51-35.51	35.51					
TW-3	3/18/2014	3/25/2014	DPT	26.34-36.34	36.34					
TW-4			DPT	26.93-36.93	36.93					
	3/18/2014	3/25/2014								
TW-5 TW-6	3/18/2014	3/25/2014	DPT/SSA DPT/SSA	27.42-37.42	37.42 44.76					
	3/18/2014	3/24/2014	,	34.76-44.76						
TW-7	3/19/2014	3/24/2014	SSA	34.79-44.79	44.79					
TW-8	3/19/2014	3/24/2014	SSA	34.76-44.76	44.76					
TW-9	3/19/2014	3/24/2014	SSA	34.79-44.79	44.79					
TW-10	3/19/2014	3/24/2014	SSA	34.78-44.78	44.78					
TW-11	3/20/2014	3/24/2014	DPT/SSA	49.74-59.74	59.74					
TW-12	3/19/2014	3/24/2014	SSA	49.75-59.75	59.75					
TW-13	3/21/2014	3/24/2014	SSA	49.77-59.77	59.77					
TW-14	3/20/2014	3/24/2014	SSA	49.71-59.71	59.71					
TW-15	3/21/2014	3/24/2014	SSA	32.95-42.95	42.95					
TW-16	6/2/2014	6/5/2014	HSA	35.15-45.15	45.15					
TW-17	3/21/2014	3/25/2014	SSA	32.93-42.93	42.93					
TW-18	3/22/2014	3/25/2014	SSA	32.30-42.30	42.30					
TW-20	3/22/2014	3/25/2014	SSA	32.89-42.89	42.89					
TW-22	3/21/2014	3/24/2014	SSA	34.78-44.78	44.78					
TW-23	3/24/2014	3/25/2014	SSA	49.78-59.78	59.78					
TW-24	3/24/2014	3/25/2014	SSA	49.68-59.68	59.68					
TW-25	3/22/2014	3/25/2014	SSA	33.13-43.13	43.13					
TW-26	3/24/2014	3/24/2014	SSA	34.78-44.78	44.78					
TW-27	3/25/2014	3/25/2014	SSA	34.73-44.73	44.73					
TW-28	3/25/2014	3/25/2014	SSA	34.82-44.82	44.82					
TW-29	3/25/2014	3/25/2014	SSA	49.78-59.78	59.78					
TW-30	3/25/2014	3/25/2014	SSA	33.19-43.19	43.19					
TW-31	6/3/2014	6/5/2014	SSA	35.25-45.25	45.25					
TW-32	6/3/2014	6/5/2014	SSA	35.27-45.27	45.27					
TW-33	6/4/2014	6/5/2014	SSA	35.03-45.03	45.03					
TW-34	6/4/2014	6/5/2014	SSA	35.10-45.10	45.10					
TW-35	6/4/2014	6/5/2014	SSA	35.07-45.07	45.07					
TW-36	6/2/2014	6/5/2014	SSA	35.15-45.15	45.15					
TW-37	6/2/2014	6/5/2014	SSA	35.10-45.10	45.10					
TW-38	6/3/2014	6/5/2014	SSA	35.02-45.02	45.02					
TW-39	6/3/2014	6/5/2014	SSA	35.16-45.16	45.16					
TW-40	6/3/2014	6/5/2014	SSA	35.15-45.15	45.15					
TW-41	6/2/2014	6/5/2014	HSA	35.11-45.11	45.11					
TW-42	6/2/2014	6/5/2014	HSA	35.00-45.00	45.00					
I	J, _/ _ J _ J .	0, 0, 201.	1.57.		1 .5.55					

^aDPT - direct push technology, HSA - hollow stem auger, and SSA - solid stem auger.

^bft bgs - feet below ground surface



Table 3. Recent Field-Measured Groundwater Sampling Parameters **Former MacGregor Golf Company** Albany, Georgia Dissolved ORP **Total Gallons Temperature** Conductivity Turbidity Well Sample Date рΗ **O**xygen (NTU)^d Removed (°C) (mV)b (mS/cm)^a (mg/L)^c TW-1 3/18/2014 0.75 7.41 14.30 0.234 150.3 6.23 3.39 TW-2 3/18/2014 0.75 7.41 18.59 0.372 94.6 5.18 3.47 TW-3 0.80 7.59 20.46 0.245 5.33 2.39 3/18/2014 1.6 TW-4 0.75 7.46 0.224 -13.3 3/18/2014 19.72 5.36 3.34 TW-5 3/19/2014 0.80 7.32 17.75 0.314 59.1 5.36 1.41 TW-6 3/19/2014 1.40 6.83 19.41 0.586 43.4 5.02 2.60 TW-7 0.85 6.88 21.98 0.605 -16.5 2.57 29.1 3/19/2014 TW-8 3/19/2014 1.00 6.77 23.16 0.582 151.7 5.12 1.98 TW-9 3/20/2014 1.80 6.77 19.95 0.644 182.0 4.68 1.51 TW-10 0.75 6.70 21.07 0.508 259.4 5.72 3/20/2014 5.31 TW-11 3/20/2014 2.50 6.84 21.47 0.633 104.2 5.30 4.73 TW-12 3/20/2014 1.55 6.88 23.24 0.586 13.7 8.79 4.85 TW-13 3/21/2014 2.75 6.57 24.76 0.574 63.6 5.77 7.70 TW-14 3/21/2014 2.80 6.63 20.44 0.529 89.3 5.55 9.11 TW-15 1.25 7.04 18.7 3.28 3/22/2014 22.53 0.436 5.15 TW-16 1.20 7.20 24.14 0.415 122.9 5.35 4.67 6/2/2014 TW-17 1.50 7.27 94.8 3/22/2014 20.96 0.327 0.33 3.40 TW-18 3/23/2014 1.25 7.46 20.45 0.230 43.2 5.86 7.37 TW-20 3/23/2014 1.00 7.45 20.86 0.268 104.6 6.28 5.28 TW-22 1.00 6.44 26.24 76.1 4.93 3/21/2014 0.541 1.30 TW-23 3.75 6.86 0.561 76.4 4.30 8.89 3/24/2014 21.13 TW-24 3/24/2014 2.75 6.72 20.09 0.626 129.6 5.34 7.03 TW-25 3/23/2014 1.00 7.26 21.22 0.337 250.1 5.65 9.19 TW-26 1.00 7.52 19.12 0.299 82.1 3/25/2014 5.51 4.01 TW-27 3/25/2014 1.50 7.30 18.34 0.374 73.1 5.95 7.94 TW-28 1.00 24.79 0.545 88.5 4.68 3/25/2014 6.82 2.09 TW-29 2.00 103.5 7.35 3/26/2014 6.81 18.35 0.569 9.23 TW-30 3/25/2014 4.00 7.40 22.24 0.337 66.0 5.67 8.79 TW-31 6/4/2014 1.00 6.79 28.61 0.542 86.0 4.27 6.60 TW-32 6/4/2014 1.40 6.80 28.07 0.552 97.3 4.10 8.02 TW-33 1.25 0.534 -105.9 6/5/2014 6.93 26.54 3.91 8.68 TW-34 0.90 6.84 0.600 -154.2 2.76 6/5/2014 25.95 6.96 TW-35 2.80 6/5/2014 6.93 26.83 0.669 -126.1 3.91 33.10 TW-36 6/3/2014 2.20 7.05 22.28 0.391 105.9 5.23 8.86 TW-37 2.20 7.27 0.397 110.4 4.47 6/3/2014 23.86 9.27 TW-38 1.20 25.77 0.44 6/4/2014 6.61 0.435 24.4 7.53 TW-39 92.2 6/4/2014 1.80 7.34 22.76 0.248 6.02 8.61 TW-40 0.80 7.07 23.22 0.447 130.7 5.22 6/3/2014 5.85 TW-41 6/3/2014 1.25 7.18 23.87 0.441 103.2 4.36 9.03 6/2/2014 TW-42 1.50 7.14 25.77 0.428 115.4 4.43 6.31

^d NTU = Nephelometric Turbidity Unit.



^a mS/cm = Millisiemens per centimeter.

b ORP = Oxidation Reduction Potential in millivolts (mV).

c mg/L = Milligrams per liter.

Table 4. Recent Groundwater Detections of Site COCs **Former MacGregor Golf Company** Albany, Georgia Concentration (mg/L)^a Well ID Sampling Date Total Hexavalent Trivalent Chromium Chromium Chromium **GW Delineation Standard** 0.10 0.01 0.01 **GW Cleanup Standard** 0.10 0.01 153 TW-1 0.160 0.143 0.017 3/18/2014 3/18/2014 0.034 0.014 0.020 Jb TW-2 0.034 0.026 J < 0.01 3/18/2014 Dup TW-3 0.076 3/18/2014 0.068 < 0.01 TW-4 3/18/2014 0.125 0.110 0.015 TW-5 3/19/2014 0.075 0.070 J < 0.01 UJ^c TW-6 3/19/2014 0.020 < 0.01 0.019 TW-7 < 0.01 < 0.01 < 0.01 3/19/2014 TW-8 < 0.01 3/19/2014 0.020 0.013 TW-9 0.015 J < 0.01 UJ 0.015 J 3/20/2014 TW-10 3/20/2014 0.011 < 0.01 0.011 0.250 3/20/2014 1.740 1.490 TW-11 0.274 3/20/2014 Dup 1.730 1.460 < 0.01 0.011 TW-12 3/20/2014 0.011 TW-13 3/21/2014 0.060 0.056 < 0.01 3/21/2014 TW-14 0.587 0.580 < 0.01 TW-15 3/22/2014 < 0.01 < 0.01 < 0.01 TW-16 0.018 < 0.01 0.018 6/2/2014 TW-17 0.014 3/22/2014 0.116 0.102 TW-18 0.098 < 0.01 3/23/2014 0.107 TW-20 3/23/2014 0.199 0.185 0.013 TW-22 3/21/2014 0.019 0.017 < 0.01 TW-23 3/24/2014 < 0.01 < 0.01 < 0.01 TW-24 0.021 < 0.01 3/24/2014 0.013 TW-25 0.086 0.075 0.011 3/23/2014 TW-26 3/25/2014 0.083 0.068 J0.015JTW-27 3/25/2014 0.168 0.147 J 0.022 JTW-28 0.039 0.024 0.015 3/25/2014 TW-29 3/26/2014 < 0.01 < 0.01 < 0.01 TW-30 0.064 0.047 0.017 3/25/2014 TW-31 6/4/2013 0.024 0.013 0.011 TW-32 6/4/2013 < 0.01 < 0.01 < 0.01 6/5/2014 < 0.01 < 0.01 UJ < 0.01 UJ TW-33 6/5/2014 Dup < 0.01 < 0.01 UJ < 0.01 UJ TW-34 6/5/2014 < 0.01 < 0.01 < 0.01 TW-35 6/5/2014 < 0.01 < 0.01 < 0.01 TW-36 6/3/2014 0.041 0.028 J 0.012 J TW-37 6/3/2014 0.015 < 0.01 < 0.01 TW-38 6/4/2014 < 0.01 < 0.01 < 0.01



Table 4. Recent Groundwater Detections of Site COCs Former MacGregor Golf Company Albany, Georgia Concentration (mg/L)^a Well ID **Sampling Date** Total Hexavalent Trivalent Chromium Chromium Chromium **GW Delineation Standard** 0.10 0.01 0.01 **GW Cleanup Standard** 0.10 0.01 153 TW-39 6/4/2014 0.040 0.034 J < 0.01 UJ TW-40 6/3/2014 < 0.01 < 0.01 < 0.01 6/3/2014 0.049 0.037 0.012 TW-41 6/3/2014 Dup 0.050 0.038 0.012 TW-42 6/2/2014 < 0.01 < 0.01 < 0.01

Purple Highlight - Indicates concentration is greater than delineation standard.

Orange Highlight - Indicates concentration is greater than delineation and cleanup standard.

^amg/L - Milligrams per liter; Concentrations have been rounded to three decimal places.

^bJ - Result qualified as estimated by the laboratory or as the result of data verification.

^cUJ - Result qualified as undetected at an estimated limit of detection as the result of data verification.

				Table 5.	Historical G	roundwater	Detections o	of Site COCs					
							olf Company						
			Inorganio	s: Concentratio		Albany, Geo	rgia		Organic	s: Concentratio	n (mg/L)		
Well ID	Sampling Date	Total Chromium	Hexavalent Chromium	Trivalent Chromium	Cyanide	Nickel	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Xylenes (Total)
GW Delineation S	tandard	0.10	0.01	0.01	0.20	0.10	0.007	0.07	0.005	0.002	0.005	0.7	10
GW Cleanup Stan	dard	0.10	0.01	153	2.04	2.04	0.58	0.204	0.038	0.0033	0.0088	0.70	10
	6/30/95	0.05	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.005
	6/10/98	NA 10.010	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.005
MW-1	7/31/98	< 0.010 NA	NA NA	NA NA	< 0.02 NA	< 0.02 NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005 <0.002
	6/30/99 8/6/99	NA NA	NA NA	NA NA	NA NA	NA NA	0.0017 <0.001	<0.001 <0.001	<0.001 <0.001	<0.001 NA	<0.001 NA	<0.001 NA	NA
	3/12/03	NA NA	NA NA	NA NA	NA NA	NA NA	<0.001	<0.001	<0.001	<0.0001	<0.0002	<0.0003	<0.0015
	6/30/95	0.04	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.005
MW-2	6/10/98	NA	NA	NA	NA	NA	<0.005	0.0059	<0.005	<0.002	<0.002	<0.002	<0.005
	7/31/98	< 0.010	NA	NA	< 0.02	< 0.02	<0.002	0.004	<0.002	<0.002	<0.002	<0.002	<0.005
	6/30/95	0.05	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.005
	6/10/98	NA	NA	NA	NA	NA	0.0094	<0.005	0.005	<0.002	<0.002	<0.002	<0.005
MW-3	7/31/98	< 0.010	NA	NA	< 0.02	0.03	0.007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
	6/30/99	NA NA	NA NA	NA NA	NA NA	NA NA	0.0058	0.0019	<0.001	<0.001	<0.001	<0.001	<0.002
	2/26/03 6/30/95	NA < 0.010	NA NA	NA NA	NA NA	NA NA	<0.0002 <0.005	<0.0004 1.560	<0.0002 0.376	<0.0001 0.065	<0.0002 <0.002	<0.0003 <0.002	<0.0015 <0.005
	6/10/98	NA	NA NA	NA NA	NA NA	NA NA	<0.005	2.900	0.310	<0.003	<0.002	<0.002	<0.005
	7/29/98	0.33	NA NA	NA NA	< 0.02	0.39	<0.003	2.800	0.350	0.013	<0.002	<0.002	<0.005
	6/30/99	NA	NA	NA	NA	NA	<0.025	3.700	0.460	<0.001	<0.025	<0.025	<0.050
	2/26/03	NA	NA	NA	NA	NA	<0.0002	2.200	0.290	0.017	<0.0002	<0.0003	<0.0015
	5/21/03	NA	NA	NA	NA	NA	<0.0002	1.300	0.200	0.0034	<0.0002	<0.0003	<0.0015
	6/13/03	NA	NA	NA	NA	NA	<0.0002	2.200	0.190	0.0022	<0.0002	<0.0003	<0.0015
	7/18/03	NA	NA	NA	NA	NA	<0.007	1.500	0.200	0.0068	<0.009	<2.300	<10.000
	8/14/03	NA	NA	NA	NA	NA	<0.00022	1.600	0.200	0.0020	<0.00019	<0.00032	<0.0015
MW-4	2/19/04	NA NA	NA NA	NA NA	NA NA	NA NA	<0.007	1.800	0.370	0.013	<0.009	<2.300	<10.000
IVIVV-4	3/29/04 5/19/04	NA NA	NA NA	NA NA	NA NA	NA NA	<0.005 <0.005	1.700 0.890	0.130 0.110	0.021	<0.005 <0.005	<0.005 <0.005	<0.015 <0.015
	8/23/04	NA NA	NA NA	NA NA	NA NA	NA NA	<0.005	1.400	0.110	0.0087	<0.005	<0.005	<0.015
	5/30/06	< 0.010	NA NA	NA NA	NA NA	2.83	<0.005	1.100	0.170	0.0088	<0.005	<0.005	<0.015
	10/22/09	NA	NA	NA	NA	NA	0.00025 J	0.400	0.079	0.015	<0.00028	<0.00025	<0.00068
	7/28/10	NA	NA	NA	NA	NA	<0.005	0.690	0.200	0.025	<0.005	<0.005	<0.015
	3/31/11	NA	NA	NA	NA	NA	<0.005	0.410	0.110	0.0048	<0.005	<0.005	<0.015
	1/11/12	NA	NA	NA	NA	0.0725	NA	NA	NA	NA	NA	NA	NA
	11/28/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/22/13	< 0.010	< 0.010	< 0.010	NA NA	0.203	< 0.005	0.380	0.120	0.015	< 0.005	< 0.005	< 0.005
	1/7/14 7/30/98	0.01	NA NA	NA NA	NA < 0.02	NA < 0.02	< 0.005 < 0.002	0.290 <0.002	0.097 <0.002	<0.002	< 0.005 < 0.002	< 0.005 < 0.002	< 0.005 < 0.005
	6/28/99	NA	NA NA	NA NA	NA	NA	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.003
ANN 5	8/9/99	NA NA	NA	NA NA	NA NA	NA NA	<0.001	<0.001	<0.001	NA NA	NA NA	NA NA	NA NA
MW-5	9/3/99	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	NA	NA	NA	NA
	3/13/03	NA	NA	NA	NA	NA	<0.0002	0.030	<0.0002	<0.0001	<0.0002	<0.0003	<0.0015
	5/30/06	NA	NA	NA	NA	< 0.02	<0.005	<0.005	<0.005	<0.002	<0.005	<0.005	<0.015
	7/30/98	0.01	NA	NA	< 0.02	< 0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
MW-6	6/28/99	NA NA	NA NA	NA NA	NA NA	NA NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
	2/25/03	NA < 0.010	NA NA	NA NA	NA -0.02	NA <0.02	<0.0002	<0.0004	<0.0002	<0.0001	<0.0002	<0.0003	<0.0015
MW-7	7/30/98	< 0.010	NA NA	NA NA	< 0.02	< 0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
	6/29/99 3/13/03	NA NA	NA NA	NA NA	NA NA	NA NA	<0.001 <0.0002	<0.001 <0.0004	<0.001 <0.0002	<0.001	<0.001 <0.0002	<0.001 <0.0003	<0.002 <0.0015
	7/15/98	NA NA	NA NA	NA NA	NA NA	NA NA	0.0002	<0.004	0.0002	<0.0001	<0.002	<0.0003	<0.0015
MW 0	7/31/98	< 0.010	NA	NA NA	0.03	< 0.02	0.008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
MW-8	6/8/99	NA	NA	NA	NA	NA	0.014	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005
	6/28/99	NA	NA	NA	NA	NA	0.016	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.002
MW-8D	6/17/99	NA	NA	NA	NA	NA	<0.001	<0.001	<0.001	NA	NA	NA	NA



Albany, Georgia					
Inorganics: Concentration (mg/L)	Organics	: Concentratio	n (mg/L)		
Trivalent Chromium Trivalent Chromium Trivalent Chromium 1,1-Dichloroethene	Trichloroethene	Vinyl Chloride	Вепzепе	Ethylbenzene	Xylenes (Total)
GW Delineation Standard 0.10 0.01 0.01 0.20 0.10 0.007 0.07	0.005	0.002	0.005	0.7	10
GW Cleanup Standard 0.10 0.01 153 2.04 2.04 0.58 0.204	0.038	0.0033	0.0088	0.70	10
7/29/98 < 0.010 NA NA < 0.02 < 0.02 < 0.002 < 0.002	<0.002	<0.002	<0.002	<0.002	<0.005
6/28/99 NA NA NA NA NA <0.001 <0.001	<0.001	<0.001	<0.001	<0.001	<0.002
MW-9 8/6/99 NA NA NA NA NA NA CO.001 <0.001 2/25/03 NA NA NA NA NA NA CO.0002 <0.0004	<0.001 <0.0002	NA <0.0001	NA <0.0002	NA <0.0003	NA <0.0015
2/25/05 NA NA NA NA NA NA CO.0002 CO.0004	NA	NA	NA	NA	NA
7/29/98 0.01 NA NA <0.02 <0.02 <0.002 <0.002	<0.002	<0.002	<0.002	<0.002	<0.005
MW-10 6/29/99 NA NA NA NA NA <0.001 <0.001	<0.001	<0.001	<0.001	<0.001	<0.002
3/13/03 NA NA NA NA NA <0.0002 <0.0004	<0.0002	<0.0001	<0.0002	<0.0003	<0.0015
7/30/98 0.04 NA NA < 0.02 < 0.04 < 0.002 < 0.002	<0.002	<0.002	<0.002	<0.002	<0.005
6/28/99 NA NA NA NA NA <0.001 <0.001	<0.001	<0.001	<0.001	<0.001	<0.002
9/13/99	NA	NA	NA	NA	NA 2.2217
2/25/03 NA NA NA NA NA NA < 0.0002 < 0.0004 2/21/08 0.0404 NA NA NA NA NA NA NA	<0.0002 NA	<0.0001 NA	<0.0002 NA	<0.0003 NA	<0.0015 NA
MW-11 10/21/09 0.0250 0.0300 NA NA NA NA NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
7/29/10 0.1930 0.0322 NA NA NA NA NA	NA	NA	NA	NA	NA NA
3/29/11 0.0285 0.0243 NA NA NA NA NA	NA	NA	NA	NA	NA
10/23/13 0.0459 0.0402 < 0.010 NA NA NA NA	NA	NA	NA	NA	NA
1/7/14 0.0319 0.0351 < 0.010 NA NA NA NA	NA	NA	NA	NA	NA
7/30/98 < 0.010 NA NA < 0.02 < 0.02 < 0.002 < 0.002	<0.002	<0.002	<0.002	<0.002	<0.005
6/28/99 NA NA NA NA NA <0.001 <0.001	<0.001	<0.001	<0.001	<0.001	<0.002
	<0.0002 <0.005	<0.0001	<0.0002 <0.005	<0.0003 <0.005	<0.0015 <0.015
7/28/10 NA NA NA NA NA CO.005 CO.005 3/28/11 NA NA NA NA NA NA NA CO.005 CO.005	<0.005	<0.002	<0.005	<0.005	<0.015
10/26/98 NA NA NA NA NA NA <0.002 <0.002	<0.002	<0.002	0.014	0.770	4.5
6/28/99 NA NA NA NA NA <0.001 <0.001	<0.001	<0.001	<0.001	<0.001	<0.002
MW-13 2/25/03 NA NA NA NA NA NA <0.0002 <0.0004	<0.0002	<0.0001	<0.0002	<0.0003	<0.0015
3/20/10 < 0.010 < 0.010 NA NA NA < 0.005 < 0.005	<0.005	<0.002	<0.005	<0.005	<0.015
7/28/10 < 0.010 < 0.010 NA NA NA < 0.005 < 0.005	<0.005	<0.002	<0.005	<0.005	<0.015
3/29/11 < 0.010 < 0.010 NA NA NA < 0.005 < 0.005	<0.005	<0.002	<0.005	<0.005	<0.015
10/27/98 NA NA NA NA NA CO.002 <0.002 MW-14 6/28/99 NA NA NA NA NA NA NA CO.001 <0.001	<0.002	<0.002	<0.002	<0.002	<0.005
9,29,60	<0.001 <0.0002	<0.001	<0.001 <0.0002	<0.001 <0.0003	<0.002 <0.0015
10/26/98 NA NA NA NA NA NA 0.057 <0.002	0.0002	<0.0001	<0.002	<0.0003	<0.0015
MW-15 6/30/99 NA NA NA NA NA NA 0.340 <0.002	0.032	<0.002	<0.002	<0.002	<0.004
2/26/03 NA NA NA NA NA O.066 < 0.0004	0.008	< 0.0001	< 0.0002	< 0.0003	< 0.0015
10/26/98 NA NA NA NA NA < 0.002 < 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005
6/29/99 NA NA NA NA NA < 0.001 < 0.001	0.0017	< 0.001	< 0.001	< 0.001	< 0.0002
MW-16 8/6/99 NA NA NA NA NA < 0.001 0.0018	0.004	NA	NA	NA	NA
9/3/99 NA NA NA NA NA <0.001 0.0012	< 0.001	NA	NA	NA	NA
9/13/00 NA NA NA < 0.01 NA < 0.001 0.0015	0.0029	< 0.001	< 0.001	< 0.001	< 0.002
	< 0.0002 < 0.001	<0.0001	< 0.0002	< 0.0003	< 0.0015 < 0.002
	< 0.001	< 0.001 NA	< 0.001 NA	< 0.001 NA	< 0.002 NA
27-57-50 1 1 1 1 1 1 1 1	< 0.0002	<0.0001	< 0.0002	< 0.0003	< 0.0015
	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
MW-18 8/9/99 NA NA NA NA NA < 0.001 < 0.001	<0.001	NA	NA	NA	NA
9/13/99 <0.010 NA NA NA <0.04 NA NA	NA	NA	NA	NA	NA
	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002
8/9/99 NA NA NA NA NA < 0.001 < 0.001	<0.001	NA	NA	NA	NA
	< 0.0002	< 0.0001	<0.0002	<0.0003	< 0.0015
MW-19	< 0.005	< 0.002	< 0.005	< 0.005	< 0.015
3/29/11	< 0.005 NA	< 0.002 NA	< 0.005 NA	< 0.005 NA	< 0.015 NA
1/8/14	NA NA	NA NA	NA NA	NA NA	NA NA
1/8/14 Dup	NA	NA NA	NA NA	NA NA	NA NA



				Table 5.	Former N		Detections o olf Company rgia						
			Inorganio	s: Concentratio		• • • • • • • • • • • • • • • • • • • •			Organic	s: Concentratio	n (mg/L)		
Well ID	Sampling Date	Total Chromium	Hexavalent Chromium	Trivalent Chromium	Cyanide	Nickel	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Xylenes (Total)
GW Delineation S	Standard	0.10	0.01	0.01	0.20	0.10	0.007	0.07	0.005	0.002	0.005	0.7	10
GW Cleanup Stan	1	0.10	0.01	153	2.04	2.04	0.58	0.204	0.038	0.0033	0.0088	0.70	10
	8/17/99	NA	NA	NA	NA	NA	0.0047	< 0.001	0.0016	NA	NA	NA	NA
MW-20	9/3/99	NA	NA	NA	NA	NA	0.0073	< 0.001	< 0.001	NA	NA	NA	NA
	9/13/00 2/25/03	NA NA	NA NA	NA NA	< 0.01 NA	NA NA	0.0085 < 0.0002	< 0.001 < 0.0004	< 0.001 < 0.0002	< 0.001 < 0.0001	< 0.001 < 0.0002	< 0.001 < 0.0003	< 0.002 < 0.0015
MW-21	3/13/03	NA NA	NA NA	NA NA	NA NA	NA NA	< 0.0002	0.0004	< 0.0002	< 0.0001	< 0.0002	< 0.0003	< 0.0015
	3/13/03	NA NA	NA NA	NA NA	NA NA	NA NA	< 0.0002	< 0.0004	0.007	< 0.0001	< 0.0002	< 0.0003	< 0.0015
	5/30/06	NA	NA	NA	NA NA	< 0.02	< 0.005	0.0084	0.0090	< 0.002	< 0.005	< 0.005	< 0.015
MW 00	10/22/09	NA	NA	NA	NA	NA	< 0.00024	0.0062	0.0053	< 0.00029	< 0.00028	< 0.00025	< 0.00068
MW-22	7/28/10	NA	NA	NA	NA	NA	< 0.005	0.0095	0.0089	<0.002	< 0.005	< 0.005	< 0.015
	3/31/11	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	<0.002	< 0.005	< 0.005	< 0.015
	11/28/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/13/03	NA	NA	NA	NA	NA	< 0.0002	0.030	< 0.0002	< 0.0001	< 0.0002	< 0.0003	< 0.0015
	5/30/06	NA 0.00	NA NA	NA	NA NA	< 0.02	< 0.005	< 0.005	< 0.002	< 0.002	< 0.005	< 0.005	< 0.015
	2/8/08	0.33	NA NA	NA NA	NA NA	< 0.02	NA -0.0004	NA 0.0040	NA 0.000501	NA . o ooooo	NA	NA . o oooos	NA . o ooooo
MW-23	10/22/09 7/28/10	NA NA	NA NA	NA NA	NA NA	NA NA	<0.00024 < 0.005	0.0012	0.00059J < 0.005	< 0.00029 < 0.002	< 0.00028 < 0.005	< 0.00025 < 0.005	< 0.00068 < 0.015
	3/29/11	NA NA	NA NA	NA NA	NA NA	NA NA	< 0.005	< 0.005	< 0.005	<0.002	< 0.005	< 0.005	< 0.015
	10/2/12	< 0.010	< 0.010	NA NA	NA NA	NA NA	NA	NA	NA	NA	NA	NA	NA
	10/22/13	< 0.010	< 0.010	< 0.010	NA NA	NA	NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA
	4/9/08	0.386	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA	NA
	10/21/09	0.11	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/29/10	0.108	0.107	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/29/10 Dup	0.109	0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-24	3/30/11	0.120	0.0945	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/12	0.153 ^b	0.125 ^b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/2/12 10/2/12 Dup	0.138°	0.105	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	10/2/12 bup 10/23/13	0.139	0.116 0.0513	NA 0.0316	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	10/22/09	NA	NA	NA	NA NA	NA NA	< 0.00024	0.004	0.0018	< 0.00029	< 0.00028	<0.00025	< 0.00068
MW-25	7/28/10	NA NA	NA	NA	NA NA	NA NA	< 0.005	0.011	0.0055	< 0.002	< 0.005	< 0.005	< 0.015
	3/29/11	NA	NA	NA	NA	NA	< 0.005	0.0083	< 0.005	< 0.002	< 0.005	< 0.005	< 0.015
	11/29/12	0.175	0.184	< 0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/29/12 Dup	0.175	0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/20/2013	0.0959	< 0.010	0.0959	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-26	2/20/2013 Dup	0.0979	< 0.010	0.0979	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/9/2013	0.0337	0.031	< 0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/24/2013 10/24/2013 Dup	< 0.010 < 0.010	< 0.010 < 0.010	< 0.010 < 0.010	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	1/8/2014	< 0.010	< 0.010	< 0.010	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	2/21/2013	0.0101	< 0.050	0.0101	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Spartan MW-2	5/8/2013	< 0.010	< 0.010	< 0.010	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	5/8/2013 Dup	< 0.010	< 0.010	< 0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/22/98	NA	NA	NA	NA	NA	0.003	< 0.002	0.003	< 0.002	< 0.002	< 0.002	< 0.005
Supply Well	6/15/99	NA	NA	NA	NA	NA	0.0011	< 0.001	0.0026	< 0.001	< 0.001	< 0.001	< 0.002
	3/12/03	NA	NA	NA	NA	NA	0.006	< 0.0004	< 0.0002	< 0.0001	< 0.0002	< 0.0003	< 0.0015
DB-SW-1 (Surface Water)	10/20/09	0.0027J	NA	NA	NA	< 0.0022	NA	NA	NA	NA	NA	NA	NA
TW-1	3/18/2014	0.160	0.143	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-2	3/18/2014	0.034	0.020 J	0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-3	3/18/2014 Dup 3/18/2014	0.034 0.076	0.026 J 0.068	< 0.01 < 0.01	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
TW-4	3/18/2014	0.076	0.068	0.015	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
TW-5	3/19/2014	0.075	0.070 J	< 0.01 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-6	3/19/2014	0.020	< 0.01	0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-7 TW-8	3/19/2014 3/19/2014	< 0.01 0.020	< 0.01 0.013	< 0.01 < 0.01	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
TW-9	3/20/2014	0.020 0.015 J	< 0.013	0.015 J	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
TW-10	3/20/2014	0.011	< 0.01	0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA



Table 5. Historical Groundwater Detections of Site COCs Former MacGregor Golf Company Albany, Georgia Inorganics: Concentration (mg/L) Organics: Concentration (mg/L) Dichloroethene Chromium valent Chromium Well ID Sampling Date Chromium Trichloroethene Vinyl Chloride exavalent 7,7 0.20 **GW Delineation Standard** 0.10 0.01 0.01 0.10 0.007 0.07 0.005 0.002 0.005 0.7 10 GW Cleanup Standard 0.10 0.01 153 2.04 2.04 0.58 0.204 0.038 0.0033 0.0088 0.70 10 3/20/2014 1.740 1.490 0.250 NA NA NA NA NA NA NA NA NA TW-11 3/20/2014 Dup 1.730 1.460 0.274 NA NA NA NA NA NA NA NA NA TW-12 3/20/2014 0.011 < 0.01 0.011 NA NA NA NA NA NA NA NA NA TW-13 0.056 NA NA NA 3/21/2014 0.060 < 0.01 NA NA NA NA NA NA TW-14 3/21/2014 0.587 0.580 < 0.01 NA NA NA NA NA NA NA NA NA < 0.01 NA NA NA NA NA NA TW-15 3/22/2014 < 0.01 < 0.01 NA NA NA NA TW-16 6/2/2014 0.018 < 0.01 0.018 NA NA NA NA NA NA NA NA TW-17 3/22/2014 0.116 0.102 0.014 NA NA NA NA NA NA NA NA NA TW-18 3/23/2014 0.107 0.098 < 0.01 NA NA NA NA NA NA NA NA NA TW-20 3/23/2014 0.199 0.185 0.013 NA TW-22 NA NA NA NA NA 3/21/2014 0.019 0.017 < 0.01 NA NA TW-23 3/24/2014 < 0.01 < 0.01 < 0.01 NA NA NA NA NA NA NA NA NA TW-24 3/24/2014 0.021 0.013 < 0.01 NA NA NA NA NA NA NA NA NA TW-25 3/23/2014 0.086 0.075 0.011 NA NA NA NA NA NA NA NA NA TW-26 3/25/2014 0.083 0.068 J 0.015 J NA NA NA NA NA NA NA NA NA TW-27 3/25/2014 0.168 0.147 J 0.022 J NA NA NA NA NA NA NA NA NA TW-28 3/25/2014 0.039 0.024 0.015 NA NA NA NA NA NA NA NA NA TW-29 < 0.01 < 0.01 NA NA NA NA NA NA 3/26/2014 < 0.01 NA NA NA TW-30 0.064 0.047 0.017 3/25/2014 NA NA NA NA NA NA NA NA NA TW-31 6/4/2013 0.024 0.013 0.011 NA NA NA NA NA NA NA NA NA TW-32 < 0.01 < 0.01 6/4/2013 < 0.01 NA NA NA NA NA NA NA NA NA < 0.01 < 0.01 UJ < 0.01 UJ NA NA NA NA NA NA NA 6/5/2014 NA NA TW-33 6/5/2014 Dup < 0.01 < 0.01 UJ < 0.01 UJ NA NA NA NA NA NA NA NA NA TW-34 6/5/2014 < 0.01 < 0.01 < 0.01 NA NA NA NA NA NA NA NA NA TW-35 6/5/2014 < 0.01 < 0.01 < 0.01 NA NA NA NA NA NA NA NA NA TW-36 0.041 0.0281 0.012 I NA 6/3/2014 NΑ NΑ NΑ NΑ NΑ NΑ NΑ NΑ TW-37 6/3/2014 0.015 < 0.01 < 0.01 NA NA NA NA NA NA NA NA NA TW-38 6/4/2014 < 0.01 < 0.01 < 0.01 NA TW-39 6/4/2014 0.040 0.034 J < 0.01 UJ NA NA NA NA NA NA NA NA TW-40 6/3/2014 < 0.01 < 0.01 < 0.01 NΑ NA NA NΑ NΑ NA NA NΑ NΑ 6/3/2014 0.049 0.037 0.012 NA NA NA NA NA NA NA NA NA TW-41 6/3/2014 Dup 0.050 0.038 0.012 NA NA NA NA NA NA NA NA NA TW-42 NA NA NA NA NA NA NA NA 6/2/2014 < 0.01 < 0.01 NA < 0.01

Dup - Duplicate sample

Purple Highlight - Indicates concentration is greater than delineation standard.

Orange Highlight - Indicates concentration is greater than delineation and cleanup standard.

NA -Sample not analyzed for this parameter.

J - Result qualified as estimated by the laboratory or as the result of data verification.

mg/L - milligrams per liter

a MW-11 sample from 9/13/99 was highly turbid at time of sample collection; data not representative of groundwater conditions.

b MW-24 samples from 1/11/12 were highly turbid at time of sample collection. Concentrations of dissolved total chromium and dissolved hexavalent chromium were 0.122 mg/L and 0.115 mg/L, respectively.

^c MW-24 samples from 10/2/12 were highly turbid at time of sample collection. Concentration of total dissolved chromium in the parent and duplicate samples was 0.134 mg/L. The samples were not analyzed for dissolved hexavalent chromium

					Table	Former Ma	cGregor Gol		COCs					
				la :			lbany, Georg	ia		0 : :	.0	- (() -		
Location	Sample Depth (feet)	Sampling Date	Total Chromium	Hexavalent Chromium	Trivalent Chromium	Cyanide (84 / 84) u	Nickel	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	n (mg/ kg)	Ethylbenzene	Xylenes (Total)
Soil Delinea	tion Standa	rd	100	2.0	2.5	20	50	0.7	7.0	0.5	0.2	0.5	70	1,000
Soil Cleanup	Standard		1,200	3.84	3,066,000	412.9	2,665	4.18	7.0	0.5	0.2	0.5	70	1,000
	0-2	7/27/98	12	NA	NA	< 0.2	2.9	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
SB-1	0-2 D	7/27/98	5.3	NA	NA	< 0.2	2.6	< 0.005	0.015	< 0.005	NA	NA	NA	< 0.005
	28-30	7/27/98	6.7	NA	NA	< 0.2	13	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
	0-2ª	7/25/98	7.6	NA	NA	0.2	4	< 0.005	< 0.005	< 0.005	NA	NA	NA	0.007
SB-2	0-2 ^b	7/25/98	NA -	NA	NA 	NA	NA -	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
3D-2	29-31 ^a 29-31 ^b	7/25/98	2.7	NA NA	NA NA	< 0.2	2.7	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	0.005
	34-36	7/25/98 7/25/98	NA 9.4	NA NA	NA NA	NA 0.4	NA 14	< 0.005 < 0.005	< 0.005 < 0.005	< 0.005 < 0.005	NA NA	NA NA	NA NA	< 0.005 < 0.005
	2-4 ^a	7/24/98	4.2	NA NA	NA NA	3.7	300	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	0.019
	2-4 ^b	7/24/98	NA	NA NA	NA NA	NA	NA	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.005
	8-10 ^a	7/24/98	3.8	NA	NA	< 0.2	620	< 0.005	< 0.005	< 0.005	NA	NA	NA	0.017
SB-3	8-10 ^b	7/24/98	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
	34-36 ^a	7/24/98	12	NA	NA	0.5	23	< 0.005	1 E	0.45 E	NA	NA	NA	0.019
	34-36 ^b	7/25/98	NA	NA	NA	NA	NA	< 0.005	0.1	0.04	NA	NA	NA	< 0.005
	0-2 ^a	7/25/98	530	NA	NA	0.2	52	< 0.005	< 0.005	< 0.005	NA	NA	NA	0.008
	0-2 ^b	7/25/98	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	NA	NA	NA	0.0024 E
SB-4	29-31 ^a	7/25/98	1.8	NA	NA	< 0.2	<2	< 0.005	< 0.005	< 0.005	NA	NA	NA	0.01
	29-31 ^b	7/25/98	NA 0.0	NA NA	NA NA	NA 0.0	NA 5.0	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.005
	34-36 ^a 34-36 ^b	7/24/98 7/24/98	8.6	NA NA	NA NA	0.3	5.2	< 0.005	< 0.005 < 0.005	< 0.005 < 0.005	NA NA	NA NA	NA NA	0.008
	34-36 3-5 ^a	7/18/98	NA 4	NA NA	NA NA	NA < 0.2	NA < 2	< 0.005 < 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.005 0.02
	3-5 ^b	7/18/98	NA NA	NA NA	NA NA	NA	NA	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.005
	8-10 ^a	7/18/98	6.1	NA NA	NA NA	< 0.2	<2	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	0.018
MW-5	8-10 ^b	7/18/98	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
	32-34ª	7/18/98	< 1	NA	NA	< 0.2	<2	< 0.005	< 0.005	< 0.005	NA	NA	NA	0.012
	32-34 ^b	7/18/98	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
MW-6	13-15 ^a	7/21/98	13	NA	NA	< 0.2	<1	< 0.005	< 0.005	< 0.005	NA	NA	NA	0.023
	13-15 ^b	7/21/98	NA	NA	NA	NA	NA	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
	0-2	10/23/98	6.8	NA	NA	NA	<2	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.005
SB-5	8-10	10/23/98	5.5	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA
	34-36 0-2	10/23/98	45	NA NA	NA NA	NA NA	28	< 0.005	< 0.005	< 0.005	NA	NA NA	NA	< 0.005
	8-10	10/23/98	650 7.2	NA NA	NA NA	NA NA	61 <2	< 0.005 NA	< 0.005 NA	< 0.005 NA	NA NA	NA NA	NA NA	< 0.005 NA
SB-6	20-22	10/23/98	NA	NA NA	NA NA	NA NA	NA	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.005
	34-36	10/23/98	30	NA NA	NA NA	NA NA	24	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.005
	0-2	6/24/99	9.9	NA	NA	< 1.1	< 4.3	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.01
SB-7	8-10	6/24/99	7.1	NA	NA	< 1.1	< 4.3	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.009
	18-20	6/24/99	2.6	NA	NA	< 1.1	< 4.4	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0096
	0-2	6/24/99	10	NA	NA	< 1.1	< 4.3	< 0.004	< 0.004	< 0.004	NA	NA	NA	< 0.0084
SB-8	8-10	6/24/99	6.3	NA	NA	< 1.1	< 4.3	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0092
	18-20	6/24/99	4.7	NA	NA	< 1.1	< 4.3	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0094
00.0	0-2	6/24/99	14	NA	NA	< 1.1	< 4.4	< 0.004	< 0.004	< 0.004	NA	NA	NA	< 0.0087
SB-9	8-10	6/24/99	10	NA	NA NA	< 1.1	< 4.3	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.0094
 	18-20 0-2	6/24/99 6/24/99	2.6 8.3	NA NA	NA NA	< 1.1 < 1.1	< 4.3 < 4.5	< 0.005 < 0.004	< 0.005 < 0.004	< 0.005 < 0.004	NA NA	NA NA	NA NA	< 0.009 < 0.0086
SB-10	8-10	6/24/99	7.8	NA NA	NA NA	< 1.1	< 4.5 < 4.4	< 0.004	< 0.004	< 0.004	NA NA	NA NA	NA NA	< 0.0086
52.10	18-20	6/24/99	3.9	NA NA	NA NA	< 1.1	< 4.4	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.0094
	0-2	6/24/99	8.1	NA NA	NA NA	< 1.1	4.9	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.0093
SB-11	8-10	6/24/99	12	NA	NA	< 1.1	< 4.5	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0094
	18-20	6/24/99	8.4	NA	NA	< 1.1	< 4.5	< 0.004	< 0.004	< 0.004	NA	NA	NA	< 0.0089
	0-2	6/24/99	7.9	NA	NA	< 1.1	< 4.3	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.01
SB-12	8-10	6/24/99	6.9	NA	NA	< 1.1	< 4.6	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0094
	18-20	6/24/99	23	NA	NA	< 1.1	< 4.4	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0091
	0-2	6/24/99	17	NA	NA	< 1.1	6.3	< 0.004	< 0.004	< 0.004	NA	NA	NA	< 0.0089
SB-13	8-10	6/24/99	22	NA	NA	< 1.1	< 4.4	< 0.005	< 0.005	< 0.005	NA	NA	NA 	< 0.01
	18-20	6/24/99	5.2	NA	NA	< 1.1	< 4.4	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0096



					Table	e 6. Hist <u>oric</u> a	ıl Soil Detect	tions of Site (COCs					
							cGregor Gol bany, Georg							
				Inorganics	s: Concentratio		,			Organics	: Concentration	n (mg/kg)		
Location	Sample Depth (feet)	Sampling Date	Total Chromium	Hexavalent Chromium	Trivalent Chromium	Cyanide	Nickel	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Xylenes (Total)
Soil Delinea	tion Standa	rd	100	2.0	2.5	20	50	0.7	7.0	0.5	0.2	0.5	70	1,000
Soil Cleanup	Standard		1,200	3.84	3,066,000	412.9	2,665	4.18	7.0	0.5	0.2	0.5	70	1,000
	0-2	6/24/99	7.8	NA	NA	< 1.1	< 8.7	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.01
SB-14	8-10	6/24/99	9.9	NA	NA	< 1.1	< 4.3	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0093
	18-20	6/24/99	9	NA	NA	< 1.1	< 4.4	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0092
	0-2	6/25/99	60	NA	NA	< 1.1	< 4.5	< 0.004	< 0.004	< 0.004	NA	NA	NA	< 0.0089
SB-15	8-10	6/25/99	280	NA	NA	< 1.3	39	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.01
	18-20	6/25/99	2	NA	NA	< 1.1	< 4.2	< 0.005	< 0.005	< 0.005	NA	NA	NA	< 0.0094
SB-16	0-2 8-10	6/25/99	390	NA NA	NA NA	< 1.2	68	< 0.005	< 0.005	< 0.005	NA NA	NA NA	NA NA	< 0.011
36-10	18-20	6/25/99 6/25/99	15 2.8	NA NA	NA NA	< 1.1 < 1.1	< 4.4 < 4.3	< 0.005 < 0.005	< 0.005 < 0.005	< 0.005 < 0.005	NA NA	NA NA	NA NA	< 0.0092 < 0.009
	0-2	8/5/99	74	NA NA	NA NA	NA NA	6.4	NA	NA	NA	NA NA	NA NA	NA NA	NA
SB-17	8-10	8/5/99	88	NA NA	NA	NA	82	NA	NA	NA	NA	NA	NA NA	NA
	18-20	8/5/99	8.9	NA	NA	NA	22	NA	NA	NA	NA	NA	NA	NA
	18-20	9/3/99	8.7	NA	NA	NA	7.7	NA	NA	NA	NA	NA	NA	NA
SB-17A	23-25	9/3/99	31	NA	NA	NA	61	NA	NA	NA	NA	NA	NA	NA
	28-30	11/26/12	NA	NA	NA	NA	48.3	NA	NA	NA	NA	NA	NA	NA
	0-2	8/5/99	730	NA	NA	NA	39	NA	NA	NA	NA	NA	NA	NA
SB-18	8-10	8/5/99	29	NA	NA	NA	6.7	NA	NA	NA	NA	NA	NA	NA
	18-20	8/5/99	4.9	NA	NA	NA	< 4.2	NA	NA	NA	NA	NA	NA	NA
SB-19	0-2 8-10	8/5/99 8/5/99	32	NA NA	NA NA	NA NA	8.6	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
36-19	18-20	8/5/99	9.3	NA NA	NA NA	NA NA	< 4.5 < 4	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	0-2	8/5/99	7.2	NA NA	NA NA	NA NA	< 8.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-20	8-10	8/5/99	11	NA NA	NA	NA	< 4.5	NA	NA	NA	NA	NA	NA NA	NA NA
	18-20	8/5/99	9.8	NA	NA	NA	< 4.7	NA	NA	NA	NA	NA	NA	NA
	0-2	8/5/99	5.3	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	NA
SB-21	8-10	8/5/99	22	NA	NA	NA	< 4.4	NA	NA	NA	NA	NA	NA	NA
	18-20	8/5/99	12	NA	NA	NA	< 4.7	NA	NA	NA	NA	NA	NA	NA
	0-2	8/5/99	13	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	NA
SB-22	8-10	8/5/99	15	NA	NA	NA	< 4.1	NA	NA	NA	NA	NA	NA	NA
	18-20 0-2	8/5/99 8/5/99	6.6 7.5	NA NA	NA NA	NA NA	< 4.1	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-23	8-10	8/5/99	7.8	NA NA	NA NA	NA NA	< 4.3 < 4.3	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
02 20	18-20	8/5/99	9.2	NA NA	NA NA	NA NA	< 4.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-24	0-2	9/13/00	28	NA NA	NA NA	NA NA	< 4.2	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA
SB-25	0-2	9/13/00	190	NA	NA	NA	22	NA	NA	NA	NA	NA	NA	NA
SB-26	0-2	9/13/00	170	NA	NA	NA	18	NA	NA	NA	NA	NA	NA	NA
	0-2	6/16/99	6.6	NA	NA	< 1.1	< 4.2	NA	NA	NA	NA	NA	NA	NA
MW-17	8-10	6/17/99	21	NA	NA	< 1.1	< 4.3	NA	NA	NA	NA	NA	NA	NA
	18-20	6/17/99	5.8	NA	NA	< 1.1	< 4.4	NA	NA	NA	NA	NA	NA	NA
MIN 40	0-2	6/16/99	16	NA NA	NA NA	< 1.1	6.2	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
MW-18	8-10	6/16/99	19	NA NA	NA NA	< 1.2	< 4.7	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
-	18-20 0-2	6/16/99 8/5/99	7.1	NA NA	NA NA	< 1.1 NA	< 4.4 5.4	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
MW-20	8-10	8/5/99	16	NA NA	NA NA	NA NA	< 5.4 < 5.1	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	18-20	8/5/99	2.1	NA NA	NA NA	NA NA	< 4.2	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	10-15	5/24/05	NA NA	NA NA	NA	NA	NA NA	< 0.0032	0.0062	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
B-1	20-25	5/24/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
	35-40	5/24/05	NA	NA	NA	NA	NA	< 0.0032	0.12	0.01	< 0.0071	0.0042	< 0.0036	< 0.0036
B-2	5-10	5/24/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
U-Z	25-30	5/24/05	NA	NA	NA	NA	NA	< 0.0032	0.11	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
B-3	5-10	5/24/05	NA	NA	NA	NA	NA	< 0.0034	< 0.0034	< 0.0034	< 0.0069	< 0.0034	32	130
	15-20	5/24/05	NA	NA	NA	NA	NA	< 0.0032	0.018	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036



					Table	Former Ma	al Soil Detect acGregor Gol lbany, Georg		COCs					
				Inorganics	s: Concentratio	n (mg/kg)				Organics	: Concentration	n (mg/kg)		
Location	Sample Depth (feet)	Sampling Date	Total Chromium	Hexavalent Chrom ium	Trivalent Chromium	Cyanide	Nickel	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Вепzепе	Ethylbenzene	Xylenes (Total)
Soil Delinea	tion Standa	rd	100	2.0	2.5	20	50	0.7	7.0	0.5	0.2	0.5	70	1,000
Soil Cleanup	Standard		1,200	3.84	3,066,000	412.9	2,665	4.18	7.0	0.5	0.2	0.5	70	1,000
	5-10	5/24/05	NA	NA	NA	NA	NA	0.013	11	< 0.0036	1.5	0.0098	4.00	16.6
	9-10	11/26/12	NA	NA	NA	NA	NA	NA	25	NA	1.5	NA	NA	NA
	9-10	11/26/12 Dup	NA	NA	NA	NA	NA	NA	37	NA	1.4	NA	NA	NA
B-4	15-20	5/24/05	NA	NA	NA	NA	NA	0.025	0.32	0.0056	< 0.0071	< 0.0036	0.0061	0.028
	25-30	5/24/05	NA NA	NA NA	NA NA	NA NA	NA NA	0.025	2.1	0.014	< 0.0071	< 0.0036	0.67	3.21
	9-10	11/26/12	NA NA	NA NA	NA NA	NA NA	NA NA	NA	25	NA	1.5	NA	NA	NA
	9-10		NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	37	NA NA	1.4	NA NA	NA NA	NA NA
	3-10	11/26/12 Dup												
	7-8	2/22/13	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1.500	NA NA	< 0.0087	NA NA	NA NA	NA NA
B-4a		2/22/13	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	0.110	NA NA	< 0.011	NA NA	NA NA	NA NA
	10-11	2/22/13	NA NA	NA	NA NA	NA	NA NA	NA NA	0.140	NA NA	< 0.013	NA NA	NA NA	NA NA
	15-19	2/22/13	NA	NA	NA	NA	NA	NA	0.130	NA	< 0.015	NA	NA	NA
B-5	15-20	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
	25-30	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
B-6	5-10	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
	25-30	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
B-7	5-10	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
	15-20	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
B-8	0-5	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
D-0	15-20	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
B-10	5-10	5/25/05	NA	NA	NA	NA	NA	< 0.0032	< 0.0036	< 0.0036	< 0.0071	< 0.0036	< 0.0036	< 0.0036
CD 27	0-2	2/20/08	58.60	NA	NA	NA	13.10	NA	NA	NA	NA	NA	NA	NA
SB-27	2-4	2/20/08	52.90	NA	NA	NA	11.50	NA	NA	NA	NA	NA	NA	NA
00.00	0-2	2/20/08	89.60	NA	NA	NA	15.70	NA	NA	NA	NA	NA	NA	NA
SB-28	2-4	2/20/08	49.60	NA	NA	NA	18.20	NA	NA	NA	NA	NA	NA	NA
	0-2	2/20/08	133	NA	NA	NA	11.10	NA	NA	NA	NA	NA	NA	NA
SB-29	2-4	2/20/08	16.70	NA	NA	NA	< 4.34	NA	NA	NA	NA	NA	NA	NA
SB-30	0-2	2/20/08	5.47	NA	NA	NA	< 5.80	NA	NA	NA	NA	NA	NA	NA
	0-2	2/20/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-31	8-10	2/20/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	2/20/08	< 2.20	NA	NA	NA	< 4.41	NA	NA	NA	NA	NA	NA	NA
SB-31	30-32	2/20/08	5.72	NA	NA.	NA	< 5.30	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.019	< 0.0095	< 0.0095
	0-2	2/20/08	NA	NA NA	NA.	NA	NA	NA	NA	NA	NA	NA NA	NA	NA
SB-32	8-10	2/20/08	13.00	NA NA	NA NA	NA NA	< 5.32	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
-	23-25	2/20/08	NA	NA NA	NA NA	NA NA	\ 5.32 NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	0-2	2/20/08	NA NA	NA NA	NA NA	< 1.08	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-33	34-36	2/20/08	6.53	NA NA	NA NA	NA	< 4.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
05.00	40-42	2/20/08	8.70	NA NA	NA NA	NA NA	< 5.73	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-34	34-36													
SB-35	0-2	2/20/08	22.50 9.21	NA NA	NA NA	NA NA	7.31 NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-36	0-2	2/20/08		NA NA		NA NA			NA NA	NA NA	NA NA	NA NA		
SB-30	0-2	4/8/08	8.56	NA NA	NA NA	NA NA	< 5.14	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
3D-31		4/8/08	9.46	NA NA	NA NA	NA NA	< 4.41	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-38	0-2	4/8/08	6.39	NA	NA NA	NA	< 5.06	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
CD 22	0-2	4/8/08 Dup	3.4	NA	NA NA	NA NA	< 5.06	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
SB-39	34-36	4/8/08	12	NA	NA T. O	NA	< 4.60	NA 	NA	NA	NA	NA 	NA 	NA
DB-S1	0-1	10/20/09	5.9	< 0.37	5.9	NA	1.3	NA	NA	NA	NA	NA	NA	NA
DB-S2	0-1	10/20/09	45.0	< 0.75	45.0	NA	8.0	NA	NA	NA	NA	NA	NA	NA
	0-1 D	10/20/09	40.0	< 0.60	40.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
SED-1	0-3"	2000	3,300°	NA	NA	NA	210	NA	NA	NA	NA	NA	NA	NA
SED-2	0-3"	2000	500°	NA	NA	NA	240	NA	NA	NA	NA	NA	NA	NA
	0-3"	2000 Dup	490°	NA	NA	NA	270	NA	NA	NA	NA	NA	NA	NA
SED-3	0-1	10/20/09	1,400 ^d	< 0.36	1,400	NA	NA	NA	NA	NA	NA	NA	NA	NA
SED-4	0-1	10/20/09	2,900 ^d	< 0.42	2,900	NA	NA	NA	NA	NA	NA	NA	NA	NA
SED-5	0-1	10/20/09	2,400 ^d	< 0.36	2,400	NA	NA	NA	NA	NA	NA	NA	NA	NA
SED-6	0-1	10/20/09	880	< 0.35	880	NA	NA	NA	NA	NA	NA	NA	NA	NA



					Table	6. Historica	al Soil Detect	ions of Site (COCs					
						Former Ma	cGregor Gol	f Company						
						A	lbany, Georg	a						
				Inorganics	s: Concentratio	n (mg/kg)				Organics	: Concentration	n (mg/kg)		
Location	Sample Depth (feet)	Sampling Date	Total Chromium	Hexavalent Chromium	Trivalent Chrom ium	Cyanide	Nickel	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Вепzепе	Ethylbenzene	Xylenes (Total)
Soil Delinea	tion Standa	rd	100	2.0	2.5	20	50	0.7	7.0	0.5	0.2	0.5	70	1,000
Soil Cleanup	Standard		1,200	3.84	3,066,000	412.9	2,665	4.18	7.0	0.5	0.2	0.5	70	1,000
	4-5	2/22/13	NA	NA	NA	NA	NA	NA	13	NA	< 0.0089	NA	NA	NA
GP-1	5-6	2/22/13	NA	NA	NA	NA	NA	NA	120	NA	0.023	NA	NA	NA
ui-1	14-15	2/22/13	NA	NA	NA	NA	NA	NA	0.110	NA	< 0.014	NA	NA	NA
	19-20	2/22/13	NA	NA	NA	NA	NA	NA	0.580	NA	< 0.008	NA	NA	NA
	4-5	2/22/13	NA	NA	NA	NA	NA	NA	0.066	NA	< 0.0093	NA	NA	NA
GP-2	7-8	2/22/13	NA	NA	NA	NA	NA	NA	< 0.006	NA	< 0.012	NA	NA	NA
u. 2	14-15	2/22/13	NA	NA	NA	NA	NA	NA	1.000	NA	< 0.014	NA	NA	NA
	18-19	2/22/13	NA	NA	NA	NA	NA	NA	0.540	NA	< 0.0067	NA	NA	NA
	4-5	2/22/13	NA	NA	NA	NA	NA	NA	< 0.0045	NA	< 0.009	NA	NA	NA
GP-3	7-8	2/22/13	NA	NA	NA	NA	NA	NA	0.100	NA	< 0.008	NA	NA	NA
u. 0	14-15	2/22/13	NA	NA	NA	NA	NA	NA	0.380	NA	< 0.008	NA	NA	NA
	17-18	2/22/13	NA	NA	NA	NA	NA	NA	0.082	NA	< 0.011	NA	NA	NA
	3-4	2/22/13	NA	NA	NA	NA	NA	NA	1.700	NA	0.033	NA	NA	NA
GP-4	9-10	2/22/13	NA	NA	NA	NA	NA	NA	< 0.0059	NA	< 0.012	NA	NA	NA
J 4	14-15	2/22/13	NA	NA	NA	NA	NA	NA	< 0.0051	NA	< 0.010	NA	NA	NA
	17-18	2/22/13	NA	NA	NA	NA	NA	NA	0.075	NA	< 0.011	NA	NA	NA
GP-6	2-3	2/22/13	NA	NA	NA	NA	NA	NA	< 0.0047	NA	< 0.0095	NA	NA	NA
u. 0	8-9	2/22/13	NA	NA	NA	NA	NA	NA	0.076	NA	< 0.008	NA	NA	NA

NA - Sample not analyzed for this parameter.

Dup - Duplicate sample

mg/kg - milligrams per kilogram

E - Estimated (value above quantitation range)

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an estimated value.

Purple Highlight - Indicates concentration is greater than delineation standard.

Orange Highlight - Indicates concentration is greater than delineation and cleanup standard.

 $^{^{\}rm a}$ Soil from lab-contaminated Encore samplers run for 8260 VOCs.

 $^{^{\}mbox{\scriptsize b}}$ Soil from soil jars run for 8260 VOCs.

^c The area immediately surrounding SED-1 and SED-2 was resampled in 2009. Based on the speciation of samples SED-3 through SED-6, the chromium in SED-1 and SED-2 was assumed to be in trivalent form.

 $^{^{\}rm d}$ Based on the speciation of samples SED-3 through SED-6, the chromium is in trivalent form.

	Table 7. Sur		Invoiced by Professional Engineer This Period
			MacGregor Golf Company Albany, Georgia
Certified PE	Month	Hours Invoiced	Description of Services
	February 2014	17.50	*Reviewed monthly status updates and participated in monthly project status calls *Remedial evaluation oversight.
	March 2014	7.75	*Oversight during on-site monitoring activities. *Reviewed monthly status updates and participated in monthly project status calls
Trish Reifenberger, P.E.	April 2014	7.25	*Reviewed monthly status updates and participated in monthly project status calls
Georgia PE No. 20676	May 2014	1.00	*Reviewed monthly status updates and participated in monthly project status calls
	June 2014	6.75	*Oversight during on-site monitoring activities. *Reviewed monthly status updates and participated in monthly project status calls
	July 2014 (as of 7/17/14)	7.00	*Reviewed monthly status updates and participated in monthly project status calls *Review of July 2014 Semiannual Progress Report.
Total Hours Invoiced this Pe	eriod	47.25	

Appendix A: Temporary Well Boring Logs and Well Construction Diagrams



Project Name: MacGregor Golf

Project Number: 145096
Project Location: Albany, GA

Permit Number:

NA

Well No. TW-1

Page 1 of 2

Geologist/Office	Checked By:	Boreho	le Diameter:	Screen Diameter and Type:		Slot Size:	Total Boring Depth (ft)
Brian Steele / Atlanta	Brian Steele		2"	Ultra Fine Pre Pacl	ζ	0.010	35.5 ft.
Start/Finish Date	Drilling Contra	ctor:	Sampling:		Backfill:	*	
3/17/14 - 3/17/14	Atlas Geo		Continuou	is Core	Bentonite / Gr	cout	

Driller:Drilling Method:Drilling Equipment:Ground Surface Elev: NAEasting: 2292762.9 ftDavid HoilettDirect PushGeoprobeTOC Elev: NANorthing: 566015.3 ft

	o l			Graphic Log		(i	
Depth (feet)	USC Soil Type	Description	Sample Int	Lithology	Backfill	Readings (ppm)	Remarks
-	ТОР	Top soil, sand, trace organics, trace silt. Brown		1/ 2/1/ 2/1/ 2/1/ 2/1/ 2/1/ 2/1/			Drilled to refusal with direct push, temporary monitoring well installed with direct
-	ML/CL	Orange-brown SILT, trace CLAY. trace m Sand.					push.
5—	CL/ML	Reddish orange Silty CLAY, trace m Sand.				0.0	
10	SP/SC	Reddish CLAY and m Sand. Sand is gray to orange with banded coloration, dense CLAY.				0.0	
 15— - -	SP/SC CHERT	M SAND, weathered chert little (+) Clay. Quartz fragments, chert is light gray. Chert, smooth blocky texture, hard. Saturated.				0.0	
- - - -	SC/SM						Figure A1

WELL LOG

Brown AND Caldwell Project Name: MacGregor Golf

Project Number: 145096
Project Location: Albany, GA

Permit Number:

Well No.

NA

Page 2 of 2

			1				rage 2 of 2
(feet)	il Type			Graphic Log	-	(mdd) s	
Depth (feet)	USC Soil Type	Description	Sample Int	Lithology	Backfill	Readings (ppm)	Remarks
_						0.0	
-	CHERT	Weathered Chert lense with m SAND.	•				
- - -	CL/GC	Brown CLAY, some (-) black Gravel, some Sand.					
_	CHEPTE			1///2008/0			
	CHERT CHERT	Chert, weathered chert. Chert, dark red to gray					
25—						0.0	
- -	CL/GC	Brown to red CLAY, little Gravel. Trace (-) Sand.					
30—	CL/ML	CLAY and SILT, some (+) m Sand.				0.0	
-							
-	LS	SAND and weathered white weathered limestone. Saturated at 31.5, marly limestone.					
-	LS	SAND and weathered marly limestone, very fine grained, white color. Refusal at 35.5 ft.					
- -							
35-						0.0	

Well No. Permit Number: Project Name: MacGregor Golf Brown AND **TW-11** Project Number: 145096 Caldwell NA Project Location: Albany, GA Page 1 of 3 Screen Diameter and Type: Borehole Diameter: Geologist/Office Checked By: Slot Size: Total Boring Depth (ft) George Skala / Atlanta Brian Steele 2" Ultra Fine Pre Pack 0.010 60.0 ft. Start/Finish Date **Drilling Contractor:** Sampling: Backfill:

3/20/14 - 3/20/14	+	Atlas Geo		Continuous Co	ore	Bentonite / Grout		
Driller:	Dril	lling Method:	Drilli	ng Equipment:	Ground Surfac	ee Elev: 200.27 ft	Easting:	2292277.1 ft
David Hoilett	DPT/	/ Solid Stem Auger	Geop	robe	TOC Elev: 20	0.54 ft	Northing:	566992.2 ft

	pe			Graphic Log		(ma	
Depth (feet)	USC Soil Type	Description	Sample Int	Lithology	Backfill	Readings (ppm)	Remarks
-	ТОР	Top soil, sand, trace organics.		1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Drilled to refusal at 39 ft bgs with direct push.
-	SP/SM	Orange to dark brown m SAND with some Silt (-).					
5 —	CL/ML	Orange Silty CLAY, trace (-) m Sand.				0.0	
10	SC	Yellow to orange m SAND, little Clay. Small quartz grains in sand, some weathered mica schist composition.					
 15 - - - -							
_							Figure A2

WELL LOG

Brown AND Caldwell Project Name: MacGregor Golf

Project Number: 145096
Project Location: Albany, GA

Permit Number:

NA

 $Well \ No. \\ TW-11$

Page 2 of 3

						1	rage 2 of 3
Depth (feet)	USC Soil Type	Description	Sample Int	Graphic Log Kithology	Backfill	Readings (ppm)	Remarks
25—	SP GP/SP SC/GC	Yellow to gray mc SAND, contains abundant weathered mica schist. White m SAND, weathered Chert. Trave (+) Gravel. White to light orange m SAND, some Clay trace Gravel. Contains some weathered chert, gravel contains large quartz grains. Saturated at 33 ft.				0.0	
35— - - - - -	CL/ML SC/CL	Dark brown Slity CLAY with trace (+) Gravel. Saturated F SAND, some Clay, and white marly Limestone. Refusal at 39 ft with Geoprobe rig. Switched to Solid Stem Auger.					
40 —	SC/CL	Light brown to light gray f SAND and some (+) Clay. Small quartz grains and mica present. Boring terminated at 60 ft.				0.0	Drilled to 60 ft with solid stem auger, temporary well installed with solid stem auger.

WELL LOG

Brown AND Caldwell

Project Name: MacGregor Golf Project Number: 145096 Project Location: Albany, GA

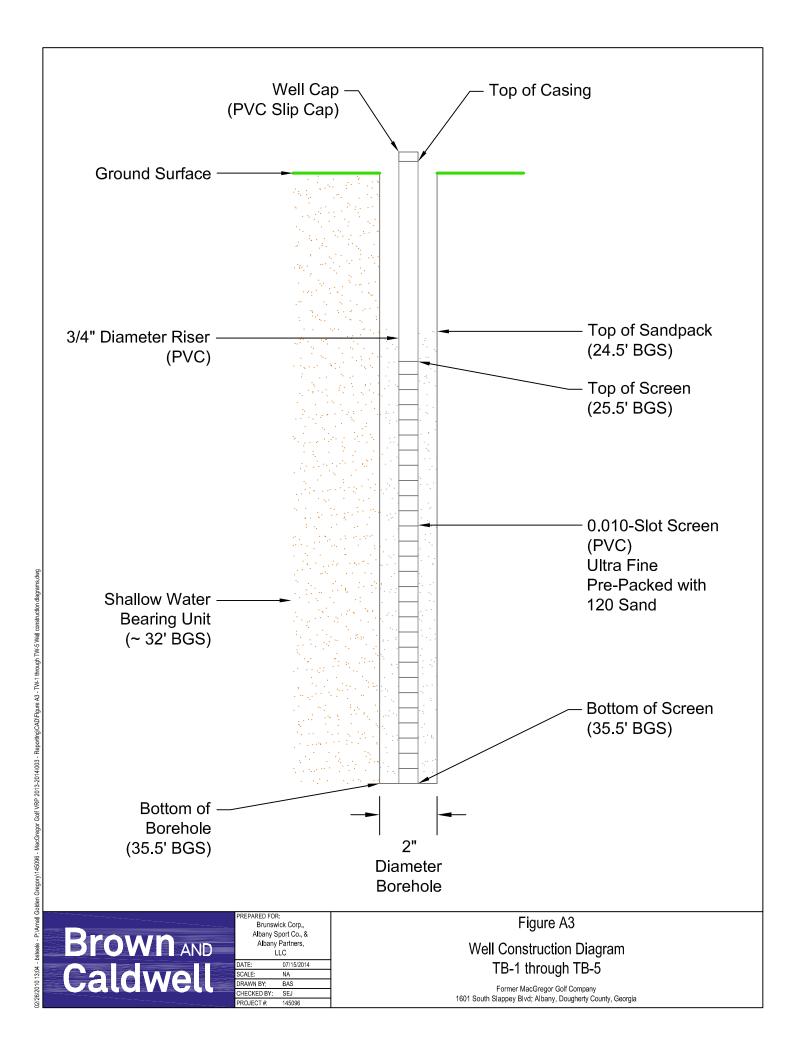
Permit Number:

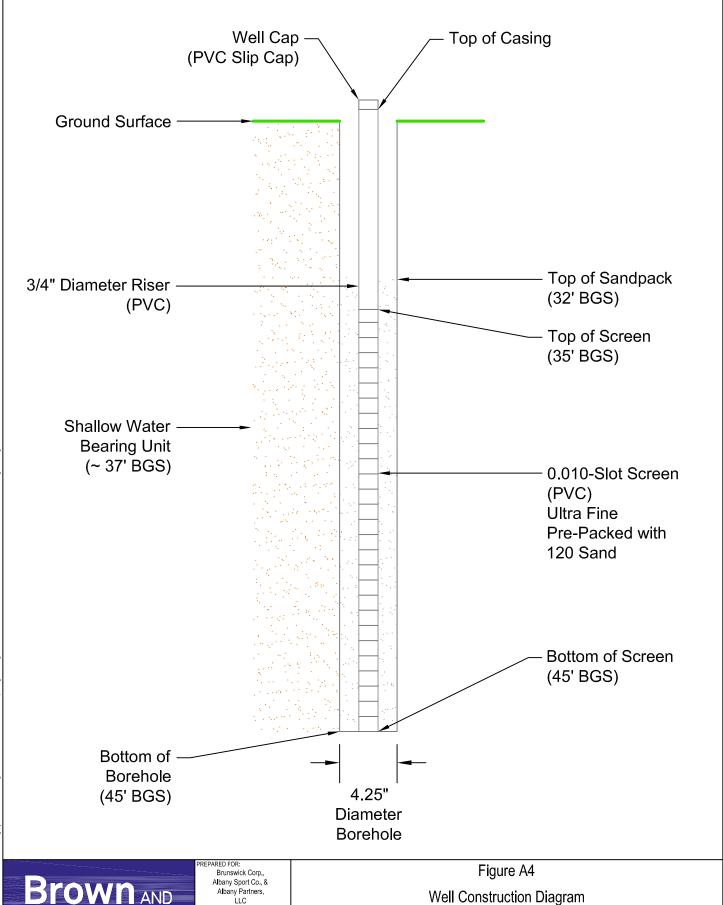
NA

Well No. TW-11

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	ata II	Project Location:	7110a11y, G71					Page 3 of 3
e	э.				Graphic Log		m)	
Depth (feet) USC Soil Type	03C 30H 13J	Description		Sample Int	Lithology	Backfill	Readings (ppm)	Remarks
55-60							0.0	

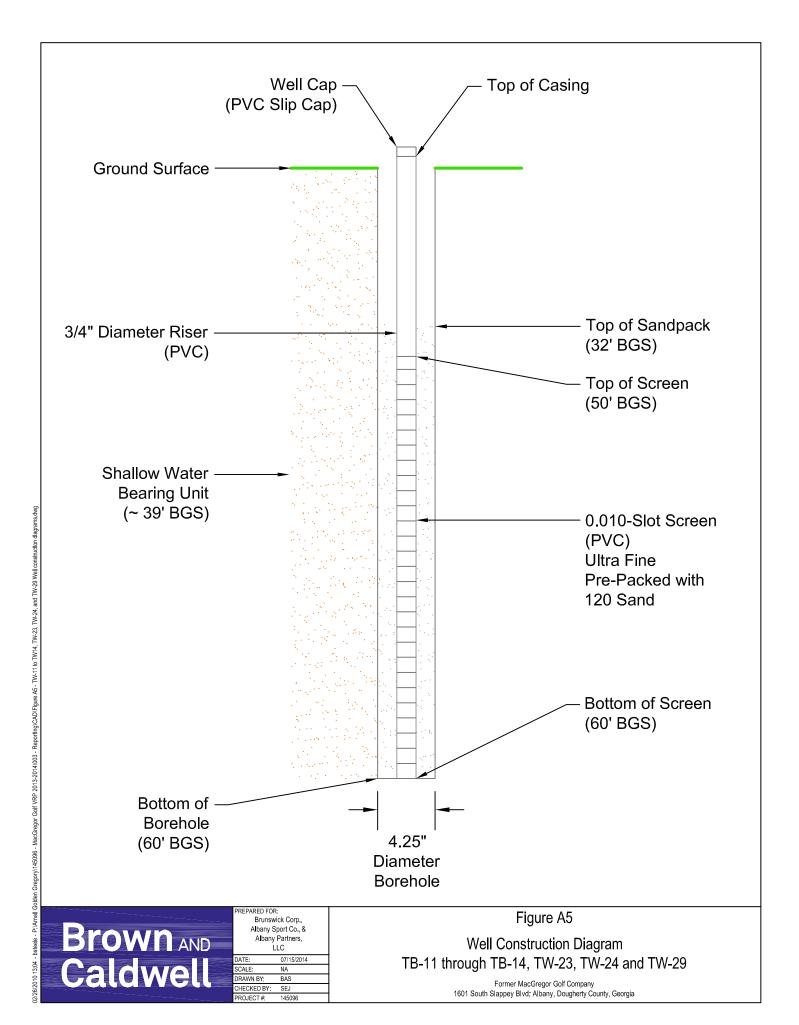


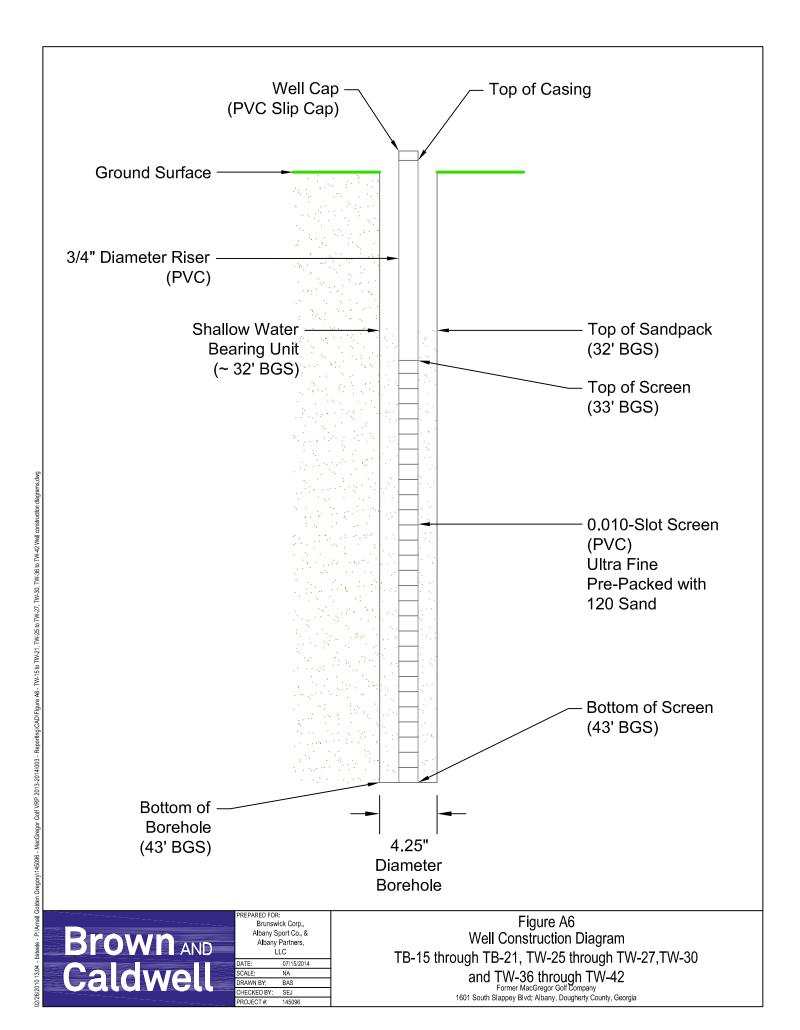


Brown AND Caldwell

TB-6 through TB-10, TW-22, TW-28 and TW-31 through TW-35

Former MacGregor Golf Company 1601 South Slappey Blvd; Albany, Dougherty County, Georgia





Appendix B: Field Data Sheets

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-/

	JECT INF			1.5					
Project I	Number: 145	2096	Task Num	nber: <u>(, 00</u>		Area of Cond	ern:		
Client:_/	Malarco	i .	-			Personnel:	<u> 85 </u>	// **	
Project I	Location:	Alban	1 GA			Weather:	Cloudy	, 40%	
2. WELI	L DATA		Date Me	easured:3	-18-14	Time: _ <i>O</i>	40 A		orary Well: 124 es □No
Casing I	Diameter: 3/	14 inc	ches	Type: DYV	C 🗆 Stainless	Galv. Steel	•	*	· ·
	Diameter: 3/		ches	Type: Drov	C 🗆 Stainless	Galv. Steel	☐ Teflon® (☐ Other:	No. of the Control of
	epth of Well:3		feet	From: 📭 fo	p of Well Casin	g (TOC) 🗆 T	op of Protectiv	e Casing 🗀 0	Other:
8	Static Water	<i></i>		From: To	p of Well Casin	g (TOC) 🗆 T	op of Protectiv	e Casing 🚨 C	Other:
Depth to	Product:		feet	From: 🗆 To	p of Well Casin	g (TOC) 📮 T	op of Protectiv	e Casing 🚨 🤇	Other:
Length o	of Water Colun	ոո։ <u>2.43</u>	feet	Well Volume	0.10	gal	Screened Ir	iterval (from (GS):
							***************************************	ell = 0.653 gal/l	ft 6-in well = 1.469 gal/ft
	GE DATA					Time: <u>\0</u>		 _	Equipment Model(s)
Purge M	lethod: 🗀 Ba	iiler, Size: trifugal Pum	p ☐ Perista	☐ Bladder Pump Itic Pump ☐ Ine	o □ 2" Sub. Pı ertial Lift Pump	ump 🖾 4" Sub Other:	Pump	_	D Bladde Pump
· Materials	s:(Pump/Bailer	☐ Polyeth	ylene 🔏 Sta	ninless DPVC	☐ Teflon® C	Other:	sable.	2. [2]	- 654
		Dedica		repared Orr-Site lypropylene 🛚	•	•	adule	3. D [27-15CE
	s: Rope/(Tubin)	Dedica	ted 🗆 Prep	ared Off-Site	☐ Field-Cleane	d 🗷 Disposal	ble	4	
	to Purge (mini	_		olumes or <u>O</u>		- -			Calibrated? ∠2*Yes □ No
Was wel	Il purged dry?	☐ Yes	T	Pumping Rai	te:	gal/min DO	Turbiditu		Campiated: 22 Tes 2 No
Time	Cum. Gallons Removed		Temp	-		> of ±10% or	Turbidity	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		
1020	20.10	6.65	13.52	0.340	277.1	6.53	576 0	5 32.3	2′
1030	0.10	7.32	14.65	0301	250.1	6.34	36.1	32.32	/
1040	0.20	6.22	14.54	0.297	236-8	6.25	21.3	32.32 1	
1050	0.25	7.44	14.76	0238	2/2.6	6.22	2.67	32.32	
1100	0.36	7.44	14.85	0.237	160.9	6.26	2.05	32.32	1
	- 00	1	1 •	, •	1.	1	!	Purge date	a continued on next sheet? 🔏
4. SAMF	PLING DA	ΛTA		•				Geocl	nemical Analyses
Method(ler, Size: rifugal Pump	Peristal	/ I Bladder Pump tic Pump □ Ine	□ 2" Sub. Pu ertial Lift Pump	mp 🔲 4" Sub.	Pump	Ferro	us Iron: mg/L
Materials	s: Pump/Bailer	☐ Polyethy	ylene 🔼 Sta	inless PVC epared Off-Site	☐ Teflon® ☐	I Other:	sable	DO:	mg/L
Materials	s: Tubing/Rope	Polyeth	vlene 🗆 Poh	vpropylene 🗆	Teflon® □ Nv	•		Nitrate	e: mg/L
Denth to	Water at Time					d? □ Yes ↓		Sulfat	e: mg/L
Sample I	111077 - 7	Sample D	1100	_	Time//20	# of Contai		Alkaliı	nity: mg/L
•	e Sample Colle		Yes No	ID:	rano <u>s s —</u>	# of Contai		/ uixaiii	
•	ent Blank Colle					# of Contai			
			. 7		. u			<u> </u>	
5. COM	VIENTS	Samp	<u> 4</u>	ibid a	+ The	start.			
(r	test K	it re	sulf s	= <	0.1	Sligh	IL P	INK	
Note: Include	comments such a	as well cond	ition, odar. ni	resence of NAP	L, or other items	s not on the field	data sheet.		
			, p		_,	are note	/		
								_	

Signature



WELL ID: TW-1

3. PUR	GE DATA	(contin	ued fror	n page)				
ŀ	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1110	0.75	7.41	14.30	0.295	150.3	6.23	3.39	32.3z	-
420				0.234 angly					
1120	<u></u>	CARO	1 S	angle,	purg	ed 5	we	1	
		rol UM	es		0				***************************************
			701 7 July 2 10 10 10 10 10 10 10 10 10 10 10 10 10						
			<u> </u>						
·····	`` : :								

			<u> </u>						
							1		
	{ }						<u> </u>		

				1					
				1					
	-								
;									
ì									

Purge data continued on next sheet?

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-2

4 000	IFOT INF	OD144	TION			 			
	JECT INF			(00					
	Number: 14		Task Num	ber: 600		Area of Conc			· · · · · · · · · · · · · · · · · · ·
	Macgre	1 4		·		Personnel:	13S		1s if
Project I	_ocation:	R W	74 GA			Weather:	cloude	, 09	<i>3</i> (
2. WELI	LDATA		Date Me	easured: <mark>ಶ-</mark>	18.14	Time: <u>1</u> 2	20	Temp	orary Well: ⊿ Yes □No
Casing I	Diameter: <u>3/</u>	L/ _inc	ches	Type: PYV	C 🗆 Stainless	Galv. Steel	☐ Teflon®	Other:	
Screen I	Diameter: 5/	/ ind	ches	Type: □PV0	C 🗆 Stainless	Galv. Steel	□ Teflon®	Other:	A POLICE AND A SECURITY OF THE
1	pth of Well: <u>5</u>		_	From: Top	of Well Casin	g (TOC) 🚨 To	op of Protectiv	re Casing 🔲	Other:
Depth to	Static Water:	31.96	feet	From: 💋 Top	of Well Casin	g (TOC) 🗆 To	op of Protectiv	re Casing 🔲	Other:
	Product:	111	feet	From: 🗆 Top		g (TOC) 🛄 To	op of Protectiv	e Casing 🔲	Other:
Length o	of Water Colun	nr <u>3.55</u>	feet	Well Volume	-	-		,	GS):
					.		7.	ell = 0.653 gal/	ft 6-in well = 1.469 gal/ft
	SE DATA	iler, Size:		rged: 3-12	CD ATT COLD TO	Time: <u>(2 </u> ump □ 4" Sub.	D. (1994)		Equipment Model(s)
Purge M	ethod: Cen	trifugal Pum	p 🛚 Perista	ltic Pump 🚨 Ine	ertial Lift Pump	Other:			ED Bladde
Materials	s(Pump/Bailer	. 🗆 Polyeth	ylene 💆 Sta ted 🔲 Pr	inless PVC repared Off-Site	☐ Teflon® ☐	☐ Other: ned ☐ Dispos	able		P-50
Materials	s: Rope/Tubin	. □ ∕Polyeth	ylene □ Pol	ypropylene 🗆	reflon® □ Ny	/lon ☐ Other:		з	51-554
	\vee	Li Deulca			□ Field-Cleane	ed Disposat	ele Lib A	2 40	27-15CE
1	to Purge (mini	mum): <u>* </u>		olumes or <u>D.</u> Pumping Rat		gallons ×5	<i>- 0.,</i>		Calibrated? ⊿Yes ☐ No
vvas wei	l purged dry? Cum. Gallons	pH	Temp	Spec. Cond.	ORP	gal/min DO	Turbidity		
Time	Removed	±0.1 su	±2°C	<u> </u>		> of ±10% or	≤ 10 NTU	Water Level	Comments
	(gal)		1	±10 μS/cm	±20 mV	±0.2 mg/L	2 10 1010		
1226	0.01	7.73	17.05	0.374	205.1	6.54	ADL	32.13	
1236	0.10	7.44	18.40	0.377	74.9	5.34	88.4	32.13	>
1246	0.35	7.42	18.64	0.375	73.3	5.27	22.3	32.13	
1256	0.50	7.39	18.22	0.373	86.1	5.21	4.39	3213	1
1306	045	7.41	18.59	0.372	946	5.10	247	32.13	
1000	V.17	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			716	7.17	Purge dat	ta continued on next sheet?
4. SAMF	PLING DA	TA						Geoc	hemical Analyses
Method(s	□ Bai	ler, Size:		Bladder Pump	□ 2" Sub. Pu	mp 🛚 4" Sub.	Pump		us Iron: mg/L
Matariala	Pump Bailer	D Delveth		intess □ PVC	•				
	\subseteq	□ Dedicate	ed 🔲 Pre	epared Off-Site	Field-Clea	ned 🗅 Dispos		DO:	mg/L
Materials	: (Tubing/Rope	□ Polyethy □ Dedicate	ylene 🚨 Poly ed 🚨 Prepa	/propylene 🚨 🛚 ared Off-Site 🏻 🗀	l'efion® □ Ny □ Field-Cleane	lon □ Other: d ☐ Disposab	le	Nitrat	e: mg/L
Depth to	Water at Time	of Sampli	ing:	4	Field Filtered	d?́□ Yes 🗜	a No	Sulfa	te: mg/L
Sample I	D:14077 -7	Sample D	ate 3 · 18 ·			_ # of Contain	ners: Z	Alkali	nity: mg/L
Duplicate	e Sample Colle	ected? 🗹 🗅	Yes □ No	ID: <u>[407</u>	7-Dup	# of Contain	ners: Z	—— Ì	
Equipme	nt Blank Colle	cted? 🗆 `	Yes ∕ No	ID:		# of Contain	ners:		
5. COM	MENTS	Chros	wiu.	feeld	10 sulfs	, ८०.	1 4	ماک اب	14/4
	Pink.					/),
	1								
Note: Include d	comments such a	as well condi	ition, odor, pr	esence of NAPL	., or other item	s not on the field	data sheet.		

Signature



WELL ID: <u>Τω-3</u>

1. PROJECT INFORMATION Project Number 15° 90 Task Number 60° Area of Concern: Client: Most Jissey Cash Task Number 60° Area of Concern: Client: Most Jissey Cash Task Number 60° Area of Concern:											
Personnet				_							
Personnek B Personnek		Project N	Number: <u>145</u>	096	Task Num	ber: 600		Area of Conc	ern:		
2. WELL DATA	(Client:_/	Macgieg	us/				Personnel:	<u>Bs</u>		
Casing Diameter 3/4	J	Project L	_ocation:	Mbany	GA			Weather: C	lear,	186.E	
Casing Diameter 3/4	2. \	WELL	_ DATA		Date Me	easured:3	18.14	Time:		Temp	orary Well: -2Yes □No
Screen Diameter 3/4	(Casing E	Diameter: 3/4								
Depth to Static Water 32/12 Seet Prom: Top of Well Casing (TOC) Top of Protective Casing Other.	5	Screen [Diameter: <u> 3/</u>	4inc	hes	Type: 2 PV	C 🗆 Stainless	Galv. Steel	□ Teffon®	Other:	
Depth to Product:	7	Fotal De	pth of Well 3	6-64	feet	From: To	p of Well Casin	g (TOC) 🗆 To	op of Protectiv	re Casing 🛚 🗘	Other:
Length of Water Column W.D. Second Secon	[Depth to	Static Water:	32.12	feet	From: 🗖 To	p of Well Casin	g (TOC) 🗆 T	op of Protectiv	re Casing 🔲 (Other:
Note: 1-in wall = 0.041 galft	i	-	· · · · · · · · · · · · · · · · · · ·			From: 🗆 To		g (TOC) 🛄 T	op of Protectiv	/e Casing □ (Other:
3. PURGE DATA Purge Method: Califfugal Pump Date Purged 3-17-14 Time: 149-3 149-3 248-4 248-	Ĺ	ength o	f Water Colun	ւո: <u>Ա,为</u> 2	feet		· 				
Purge Method: Baller, Size: Saladder Pump Peristatic Pump Deneral Lift Pump Diener Deneral Lift Pump D				essanduntassanusahantahan	ere dende e de este e ad e a lantil e la mercare m					ell = 0.653 gal/i	
Purget Welford Purget				iler Size		-					
Decicated	F	Purge M	ethod: Cen		o 🛭 Perista	ltic Pump 🗀 Ine	ertial Lift Pump	Other:			_
Materials: Rope (١	<i>N</i> aterials	s: eump/Bailer	☐ Polyeth☐ Dedical	ylene 🗷 Sta ted 🗀 Pı	inless PVC repared Off-Site	☐ Teflon® C	Other ned Dispos	sable		
Volume to Purge (minimum): 5	N	//aterials	: Rope/(Tubing	_						3. 1	11-954
Was well purged dry?									ole	4. <u>[</u>	PRT-19CE
Time Cum. Gallons PH Temp Spec. Cond. ORP DO Turbidity Water Level Comments								-			Calibrated? < □ Y es □ No
(gal)			······································	рН	Temp				Turbidity		
1417 0.20 7.57 14.41 0.251 7.3 5.25 30.3 32.16 1427 0.50 7.58 14.59 0.245 4.9 5.37 15.3 32.16 1437 0.60 7.57 14.41 0.245 1.6 5.33 2.39 32.16 1447 0.80 7.59 20.41 0.245 1.6 5.33 2.39 32.16	Т	ime		±0.1 su	±2°C	1	i		≤ 10 NTU	Water Level	Comments
1427	140	7	0.05	7.59	19.02	0.277	26.5	5.13	293	32.16	
1437 0.60 7.57 19.14 0.244 3.5 5.26 6.70 32.16 1447 0.80 7.59 20.44 0.245 1.6 5.33 2.39 32.6 4. SAMPLING DATA	14	17	0.20	7.57	19.41	0.251	7.3	5.25	30.3	32.66	
H447 0.80 7.59 20.46 0.245 1.6 5.33 2.39 32.66	14	27	0.50	7.58	19.59	0.245	4.9	5.37	15.3	32.161	
## Purge data continued on next sheet? ## Geochemical Analyses ## Geochemical Analyses ## Ferrous Iron:	14	37	0.60	7.57	19.94	0.244	3.5	5.26	6.70	32.16	
4. SAMPLING DATA Method(s): Bailer, Size: Bladder Pump 2" Sub. Pump 4" Sub. Pump Materials: Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated Prepared Off-Site Field-Cleaned Disposable Depth to Water at Time of Sampling: Field Filtered? Yes No Sample ID Mol Disposable Duplicate Sample Collected? Yes No ID: # of Containers: Equipment Blank Collected? Yes No ID: # of Containers: Sight Pink	14	47	0.80	7.59	20.46	0.245	1.6	5.33	2.39	32.61	
Method(s): Bailer, Size: Bladder Pump 2" Sub, Pump 4" Sub, Pump Ferrous Iron: mg/L Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Documentals: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: Doc mg/L Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: Nitrate: mg/L Depth to Water at Time of Sampling: Field-Cleaned Disposable Sample ID 19077 Sample Date Sub No ID: # of Containers: Alkalinity: mg/L Duplicate Sample Collected? Yes No ID: # of Containers: Equipment Blank Collected? Yes No ID: # of Containers: Field Kit Telebook Bs Alkalinity: Mg/L COMMENTS Chromium field Kit Telebook Bs Alkalinity: Mg/L Color Stag4t Proke										Purge dat	a continued on next sheet?
Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: DO: mg/L Materials: Tubirg/Rope Polyethylene Polypropylene Teflon® Nylon Other: DO: mg/L Materials: Tubirg/Rope Polyethylene Polypropylene Teflon® Nylon Other: Nitrate: mg/L Depth to Water at Time of Sampling: Field Filtered? Yes No Sample Date Sulfate: mg/L Sample Difference Polypropylene Teflon® Nylon Other: Nitrate: mg/L Sample Depth to Water at Time of Sampling: Field Filtered? Yes No No No No No No No N	4. \$	SAMF	LING DA	TA						Geoc	nemical Analyses
Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: Docide Disposable Disposable Disposable Disposable Nitrate: mg/L Depth to Water at Time of Sampling: Field Filtered? Yes No Sample Duplicate Sample Date: Sulfate: Mitrate: mg/L Duplicate Sample Collected? Yes No D: # of Containers: Equipment Blank Collected? Yes No D: # of Containers: Sulfate: mg/L Other: Mitrate: mg/L Disposable Disposable	V	/lethod(s	s): 🔲 Bail 🗅 Centr	er, Size: ifugal Pump	☐ Peristali	Bladder Pump tic Pump 🏻 Ine	☐ 2" Sub. Purtial Lift Pump	mp □ 4" Sub. □ Other:	Pump	Ferro	us Iron: mg/L
Materials Tubirg/Rope Polyethylene Polypropylene Teflon® Nylon Other: Dedicated Prepared Off-Site Field-Cleaned Disposable Depth to Water at Time of Sampling: Sample ID 14011-TS Sample Date 1500 # of Containers: Duplicate Sample Collected? Yes No ID: Equipment Blank Collected? Yes No ID: Equipment Blank Collected? Yes No ID: # of Containers:	N	Materials	$\overline{}$	☐ Polyethy	lene 🗹 Stai	nless 🗆 PVC	☐ Teflon® ☐	Other:		DO:	mg/L
Depth to Water at Time of Sampling: Field Filtered? Yes A No Sample ID. 4041-TS Sample Date 3.16.14 Sample Time: 450 # of Containers: Alkalinity: mg/L Duplicate Sample Collected? Yes A No ID: # of Containers: # of Containers: Equipment Blank Collected? Yes No ID: # of Containers: # of Contain	N	/laterials	g/Rope			•	-	•		Nitrate	e: mg/L
Sample ID. 14011-TSample Date 3.16.14 Sample Time: 1450 # of Containers: 2 Alkalinity: mg/L Duplicate Sample Collected? Yes No ID: # of Containers: # of Containers: Equipment Blank Collected? Yes No ID: # of Containers: # of								•		Sulfat	e: mg/L
Duplicate Sample Collected? Yes No ID: # of Containers: Equipment Blank Collected? Yes No ID: # of Containers: 5. COMMENTS Chron: field Kit = L.D., Bs L.D., Color Slight PINK	S	Sample li	D14077-T	W-3 Sample Da	3.15.	14 Sample T	ime: 1450	•		Alkali	
Equipment Blank Collected? Q Yes No ID: # of Containers:											
5. COMMENTS Chronium field Kit = 20.0, Bs 20.1, Color slight peak					•						
color slight prak					*						2 60 1
	J. (Lit:		······································	\$	۷ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱
Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.			<u> </u>	ig u	prak			V			
	Vote:	Include d	comments such a	s well condi	tion, odor, pr	esence of NAPI	_, or other items	s not on the field	data sheet.		· · · · · · · · · · · · · · · · · · ·
				•							
FORM GW-2 (Rev 051812 - sej) Signature	FOR	M GW-2	Rev 051812 -	sej)					Signature		

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-4

1. PRO	JECT INF	ORMA	TION									
1	Number: 146			nber:		Area of Conc	ero:					
	Macareas		. 40.1 144.1			Personnel:	1					
	_ocation:		GA			Weather:		NG.	· » · /			
2. WELI			Date Me	easured 3.	18.14							
	21	'H :	_	Type: 🌠 PV		Galv. Steel				orary Well: ✓Yes □No		
_	Jameter		ches	•		Galv. Steel				··········		
	Diameter: 3/		hes							Other:		
	pth of Well:		,	· .						Other:		
i	Static Water	_	feet							Other:		
	Product:	2 16	feet	Well Volume	~ . ~							
Length o	of Water Colun	nn: <u>). 1</u> 2	teet				Screened It 3 gal/ft 4-in w	,	•	GS): ft 6-in well = 1.469 gal/ft		
3 PURO	SE DATA	and the same of th	Date Pu	rged: 3 · (,	guargament magazin bengaberamen					Equipment Model(s)		
Purge M						ump 4" Sub.			Q	ED Bladde		
	\wedge									2-60		
Materials	s: Rumb/Bailer					☐ Other: ined ☐ Dispos		•		151-666		
Materials	s: Rope/Tubin	Polyeth	ylene 🗆 Po ted 🔘 Pres	lypropylene 🚨 pared Off-Site	Teflon® □ Ny □ Field-Cleans	/lon □ Other:_ ed ☑ Disposat	ole	(
Volume :	to Purae (mini			_	~ /			4	4	ORT-ISCE		
	Volume to Purge (minimum): well volumes or gallons Was well purged dry? □ Yes □ No Pumping Rate: gal/min Calibrated? —☐ Yes □ No											
	Cum. Gallons pH Temp Spec. Cond. ORP DO Turbidity											
Time	Time Removed $\pm 0.1 \text{ su}$ $\pm 2^{\circ}\text{C}$ $\Rightarrow \text{ of } \pm 3\% \text{ or } \Rightarrow \text{ of } \pm 10\% \text{ or } \Rightarrow \text{ of } \pm$											
1526	0.0	1.84	19.36	0.259	102.8	6.63	328	33	.4	0'		
1536	0.20	747	19.57	0.732	-37.2	4.93	61.7	<i>3</i> 3.	40	,		
1546	0.45	1.51	20.87	0.225	-31.6	5.29	185	33.9	40'	10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
1556	0.55	7.44	19.88	0.224	-195	5.37	6.02	33.	_			
120%	0.75	7.46	19.72	0.224	-13.3	5.36	3.34	33.	40	•		
1000	<u> </u>	, ,	. 3	, , , ,	1.0.0		0.07	<u> </u>		a continued on next sheet?		
4. SAMF	PLING DA	TA		 					Geoc	hemical Analyses		
Method(s		ler, Size: rifugal Pump	☐ Peristal	í Bladder Pump tic Pump ☐ Ine	□ 2" Sub. Pu	mp 🚨 4" Sub.	Pump		Ferro	us Iron: mg/L		
Materials	PumpBailer	O Dolumba	/lene 🔏 Sta	inless PVC epared Off-Site	☐ Teflon® ☐	Other:			DO:	mg/L		
Materials	s: Tubing/Rope	_			•	lon □ Other: d			Nitrat	e: mg/L		
									Sulfat	te: mg/L		
Sample I	Water at Time D: <u>/</u> 1074 - 7	Sample D	ate:3 16•	14 Sample T		# of Contai			Alkali	nity: mg/L		
	e Sample Colle		_			# of Contai						
	nt Blank Colle											
		. 1										
5. COM	VIENIS	Had	n tic	ld recon	ts = (0.1 mg	I L					

Note: Include (comments such a	as well condi	tion, odor. p	resence of NAPI	L, or other item	s not on the field	data sheet.					
					,	****						

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-5

	1. PROJECT INFORMATION											
Project N	Number: 45	5096	Task Num	ber: 600	-	Area of Conc	ern:					
Client:_/	racyreg.	01				Personnel:		·				
Project L	ocation:	lbany,	6 _A			Weather:	loudy	n 45°F				
2. WELI	_ DATA_		Date Me	easured: 3-	19.14	Time: 0	82O	Temp	orary Well: ØYes □No			
Casing I	Diameter: 31	 _ind	ches	Type:	C 🗆 Stainless	Galv. Steel	☐ Teflon®	Other:				
	Diameter: <u>3/</u>		ches	Type: PV	C 🗆 Stainless	Galv. Steel	☐ Teflon®	Other:				
Total De	pth of Welle	13+	feet	From: 💋 Top	p of Well Casing	g (TOC) 🗀 To	op of Protectiv	re Casing 🔲	Other:			
Depth to	Static Water	3.6	feet	•	p of Well Casing	• , ,	,		Other:			
	Product:	1/03	feet		p of Well Casin		op of Protectiv	e Casing 🔲	Other:			
Length o	f Water Colum	nn: <u>4-27</u>	feet	Well Volume Note: 1-in well		_ gal <i>2-in well = 0.16</i> 3		nterval (from rell = 0.653 gal/	GS): ft 6-in well = 1.469 gal/ft			
3. PURO	SE DATA	Carata a la caración de el Caldelle ((((())))	Date Pu		***************************************	Time: 💍		ust ster lante parmiles til letters kan men tinkt s til en strest	Equipment Model(s)			
Purge M	ethod: 🗀 Bai	iler, Size:	n 🗇 Perista	Bladder Pump	2" Sub. Pu	.mp □ 4" Sub. □ Other:	Pump	1. Q	ED Bladde Pump			
	Pump/Bailer	☐ Polyeth	ylene 🛂 Sta	inless 🗆 PVC	☐ Teflon® □	Other:			NP-60			
				epared Off-Site lypropylene 🔲		ned Dispos	sable		51-566			
	: Rope/Tubing	☐ Dedica	ted □ Prep	ared Off-Site	☐ Field-Cleane	d 🖊 Disposat	ole		RT-LOCE			
Volume t	to Purge (minir								Calibrated?			
Was wel	l purged dry?	☐ Yes		Pumping Rat	T	gal/min	Tuekiditu	1	Calibrated: 2 7es C 140			
Time												
:	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU					
0730	0.00	6.28	16.65	0.400	242.8	6.52	289	33.90				
0840	0.10	7.27	17.92	0.336	123.6	5.38	277	33.90				
0850	0.20	731	18.00	0.326	66.2	5.13	40.9	33.90				
0900	0.50	7.31	17.82	0.320	55.8	5.26	14.6	33.%				
0910	0.70	7.32	17.68	0.317	56.2	5.30	3.30	33.90	:			
							1	Purge dat	ta continued on next sheet?			
4. SAMF	LING DA	ATA		_				Geoc	hemical Analyses			
Method(s	s): 🔲 Bail	ler, Size: rifugal Pump	Peristal	Bladder Pump tic Pump 🔲 Ine	□ 2" Sub. Pu rtial Lift Pump	mp 🔲 4" Sub. Other:	Pump	Ferro	us Iron: mg/L			
Materials	: Pump/Bailer	☐ Polyeth	ylene 🔏 Stai	inless © PVC	☐ Teflon® ☐	I Other: ned □ Dispos	able	DO:	· mg/L			
Materials	: (ubing/Rope			•	-	•		Nitrat	te: mg/L			
	Water at Time			ared Off-Site (d Al Disposab d? □ Yes 0		Sulfa	te: mg/L			
	D:14078-7			y Sample 1				Alkali	inity: mg/L			
Duplicate	Sample Colle	ected?□	Yes No	ID:		# of Coptai	ners.					
Equipme	nt Blank Colle	cted?	Yes □ No	10: <u>1407</u>	8-EB	# of Contai	ners: 2					
5. COM	MENTS	Land	V.A.	<u> </u>	-01	Mall:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	:	110000111111111111111111111111111111111			
C. CC:VII		-[-[///				11710		····				
					- A A M-10 Sh (W -20-AR, AND Sh				AS ALV AL			
Note: Include o	comments such a	as well cond	ition, odor, pi	resence of NAP	L, or other item:	s not on the field	data sheet.		-			
									,			



WELL ID: TW-5

	(contin	ued fron	n page	()				
Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Removed (gal)			±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		Comments
0,80	7.32	17.75	0.314	59.1	5.36	[4]	33.90	
(611)	10	can no	le			,		
- (1		V						
		-						
			<u> </u>]				
	-							
	·····							
							¥	
	-							
•	Cum. Gallons Removed (gal)	Cum. Gallons PH ±0.1 su O. SO 7.32 Coll A	Cum. Gallons PH Temp Removed (gal) ±0.1 su ±2°C O. SO 7.32 14.45 COLLEGE SCAPPI	Removed (gal) ±0.1 su ±2°C > of ±3% or ±10 µS/cm O, 80 7.32	Temp Spec. Cond. ORP	Cum. Gallons Removed (gal)	Councilions	Cum_ Gallons PH Temp Spec. Cond. ORP DO Turbidity

Purge data continued on next sheet?

FORM GW-2 (Rev 051812 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-6

1. PRO	1. PROJECT INFORMATION											
_			Task Num	nber: <u>600</u>		Area of Conc	ern:					
Client: <u></u> ^	lagrage	<u> </u>				Personnel:_1						
Project L	ocation:				<u> </u>	Weather:	loudy	<i>ام (وا</i>) · E			
2. WELI			Date Me	easured:3	19.14	Time: 🕼	20	Tem	oorary Well: □Yes □No			
Casing [Diameter: 3	<u> </u>	ches .	Type: P/PV	C □ Stainless	Galv. Steel	☐ Teflon® (Other:				
Screen [Diameter: 3/	<u>4</u> inc	ches	Type: 57 PV	C 🗆 Stainless	Galv. Steel	☐ Teflon®	Other:	***************************************			
	pth of Well:	0-01	feet	From: 77 Top			•	_	Other:			
	Static Water:		feet	•		g (TOC) DIT			Other:			
	Product:	(1)	feet O		26				Other:			
Length o	f Water Colun	nn: <u>\</u>	feet	Well Volume Note: 1-in well		_ gal <i>2-in well = 0.16</i> 3	Screened Ir 3 <i>gal/ft 4-in w</i>	•	GS): /ft 6-in well = 1.469 gal/ft			
3. PURC	SE DATA	ailmaileileileileileileileileileileileileilei	Date Pu	rged: 3-10		Time: 10	dua.edenturet.engtudesbureetbureturet		Equipment Model(s)			
1				Bladder Pump				1. ©	ED Bladder			
	Pump/Bailer	_ D Polyeth	vlene 🗷 Sta	ainless 🗀 PVC	□ Teflon® □	Other:		2/\	NP-50			
		Dedica	ted 🗆 Pa	repared Off-Site	✓☐ Field-Clea	ned 🗆 Dispos	sable	3. ½	51-556			
	s: Rope/Tubing	Dedica	ted 🗅 Prep	pared Off-Site	□ Field_Cleane	d Disposal	ole 127	n	17-15CE			
I .	to Purge (mini			olumes or 10		gallons 5X) (.50	,	Calibrated? Z Yes □ No			
Was wel	I purged dry?	☐ Yes		Pumping Rat		gal/min	Turkirdis	1	Calibrated? A Tes a No			
Time	Cum, Gallons Removed		Temp	Spec. Cond.	ORP > of ±10% or	DO > of ±10% or	Turbidity	Water Leve	Comments			
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU					
1016	0	6.59	18.10	0.519	209.7	6.75	409	38.51				
1036	0.25	6.90	19.00	0.540	50.0	5.55	38.4	38.92				
1046	0.50	6.87	19.12	0.548	48.3	5.39	5.15	39.30	*			
1096	0.65	6.86	19.29	0.564	48.4	5.24	3.85	39.85				
1106	0.90	6.84	19.45	0.580	47.5	5.17	2.60	40.20				
	•	V · v · i					- 7 %	Purge da	ata continued on next sheet?			
4. SAMF	PLING DA	ATA						<u>Geo</u>	chemical Analyses			
Method(s	s): 🔲 Bai	iler, Size: Irifugal Pump	⊃ Peristal	Bladder Pump tic Pump ☐ Ine	☐ 2" Sub. Purtial Lift Pump	mp 🗆 4" Sub.	Pump	Ferr	ous Iron: mg/L			
Materials	Pump/Bailer		ylene ∕⊈ Sta	inless D PVC epared Off-Site	☐ Teflon® ☐	Other:		DO:	mg/L			
Materials	Tubing Rone	Polveth	viene 🗆 Pol	vpropylene 🗅 🖰	reflon® □ Nv	lon 🚨 Other:		Nitra	te: mg/L			
		LI Dedicati	ed U Prep	ared Off-Site L	⊒ Field-Cleane	Disposab		Sulfa	-			
	Water at Time			リタ Sample 7	rieiu riilered	d? □ Yes 0 D #ofContai	2		linity: mg/L			
B	e Sample Colle					# of Contai						
i '	nt Blank Colle		_			# of Contai						
5. COM	MENTS	Lack	/ r.	2c./1Lr	= 60	\ AA AI /	· /					
	VILIVIO	TJULIE		250145		~ ////						
Note: Include o	comments such	as well cond	ition, odor, p	resence of NAP	L, or other item	s not on the field	data sheet.					



WELL ID: Tw-6

									1 11 1
3. PUR	GE DAȚA	(contin	ued fror	n page	1)				
	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DQ	Turbidity) No. 1	0
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
116	1.20	6.84	19.40	0.574	44.6	5.15	3.09	40.62'	
1126	1.40	6.83	19.41	0.586	43.4	5.01	1.81	4(05	
	PURA	ed	5 ve	el vol	unes				
1130	الول	cet	sange						
-									
			<u> </u>					t	abellada.
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Purge data continued on next sheet?

FORM GW-2 (Rev 051812 - sej)

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-7

4 000	IFOT INF	ODIAA	TION								
	1. PROJECT INFORMATION Project Number: (45096 Task Number: 600 Area of Concern:										
1			Task Num	ber: GUU		Area of Concern:					
	Macgreg		7.			Personnel: B5 Weather: Cloudy ~ COF					
		Mbany				Weather:	rovay				
2. WELI	L DATA		Date Me	easured: <u>3-</u>	19.19	Time:	215	Temp	orary Well: □Yes □No		
· Casing I	Diameter: <u>3/</u>	<u>4</u> _in	ches .	Type: Æ∕PV	C 🗆 Stainless	Galv. Stee	I □ Teflon®	Other:			
Screen I	Screen Diameter: 314 inches Type: 21PVC Stainless Galv. Steel Teflon® Gother:										
Total De	Total Depth of Well: 4 feet From: Top of Well Casing (TOC) Top of Protective Casing Other:										
Depth to	Depth to Static Water: 40.81 feet From: Top of Well Casing (TOC) Top of Protective Casing Other:										
Depth to	Product:	2 40	feet			g (TOC) 🗅 T	op of Protectiv	ve Casing 🔲 (Other:		
Length o	of Water Colun	_{חח:} כ.תצ	_feet	Well Volume		_ gal			GS):		
0 0110	NE 5 A = A					Company Comments on the contract of the Comments of the Commen		ell = 0.653 gal/i	ft 6-in well = 1.469 gal/ft		
	SE DATA					Time: <u> </u>			Equipment Model(s)		
Purge M	ethod: Gen								EO-Bladde		
Materials	s:(Pump/Bailer	□ Polyetř□ Dedica	nylene 🗗 Sta ted 🔲 Pi	ainless D PVC repared Off-Site	☐ Teflon® 0 Field-Clea	Other: ined	sable	4	1-50		
Materials	s: Rope/Tubino				-	/lon ☐ Other:_ ed ☐ Disposa		3	151-556		
·	to Purge (mini			_	4 L		ble 1 = 0.8	71 4. <u>)</u>	RT-15CG		
	• .	mum): _				94	7 5 6 2	, .	Calibrated? ∠TYes □ No		
vvas wei	l purged dry? Cum. Gallons		Temp	Pumping Ra Spec. Cond.	1	gal/min DO	Turbidity				
Time	Removed	±0.1 su	±2°C	<u> </u>		> of ±10% or	≤ 10 NTU	Water Level	Comments		
	(gal)	20.1 50	120	±10 µS/cm	±20 mV	±0.2 mg/L	2 10 10 10				
/231	0.0	6.92	20.09	0.605	54.8	3.56	874	40.98			
124/	0.10	6.92	21.37	0.599	20.7	382	826	41.401			
1251	0.20	6.90	21.46	0.608	11.0	2.68	530	41.80			
1301	0.50	6.88	21.63	0.609	4.9	2.53	494	42.15			
1211	0.60	6.86	21.12	0.611	2.5	237	473	42.09	slowed purge.		
17[[<u> </u>	C - G - G	1-1-10	10.017		- 6	1675	Purge dat	a continued on next sheet?		
4. SAMF	PLING DA	TA						1	hemical Analyses		
Method(s	a). 🗅 Bai	ler, Size:				mp					
`	' La Centi	O Delivette		tic Pump ⊔ Ine inless □ PVC	•	Other:			_		
	s: Pump/Bailer	Dedicat	ed °□Pr	epared Off-Site	Field-Clear	ned 🗀 Dispos	sable	DO: (mg/L		
Materials	: Tubing/Rope	Polyeth:	ylene □ Pol; ed □ Prepa	ypropylene 🗅 i ared Off-Site 🛭	Teflon® □ Ny □ Field-Cleane	lon □ Other:_ d	ole	Nitrat	emg/L		
Depth to	Water at Time	e o <u>f</u> Sampl	ing:		Field Filtered	<u>1</u> ? □ Yes }		Sulfat	te:mg/L		
Sample I	D: <u>14078</u> -	Sample D	ate 3 · 19	Sample	Time: 135%	2 # of Contai	77 /	Alkali	nity: mg/L		
	Sample Colle		_			# of Contai	ners:				
Equipme	nt Blank Colle	cted? 🗆	Yes 🖈 No	ID:		# of Contai	ners:		1		
5. COM	MENTS	Harl	1712	-	10.	1 mg/	'/	<u> </u>			
O. OOM	*1441 T	Ljum	<u>417</u>			i wa i	<u> </u>				
Note: Include d	comments such a	as well cond	ition, odor, pi	esence of NAP	L, or other item:	s not on the field	data sheet.				
									/		



WELL ID: TW-7

3 PHR	GE DATA	(contin	ued fron	n nage	/ \ 				
<u>J. 1 OIN</u>	Cum. Gallons	pH	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1321	0.65			0,610	-0.9	2.53	246	42.05	
331	0.75			0.608		255	56.1	41.95	
<u> 341</u>	0.80	6.89	21.31	0.607	-13,1		32.6	41.93	/
351	0.85	6.88	21.98	0.605	-16.5	2.57	29.1	41.95	,
•		pun	ged	5 we	ll vel	mes	Sample	d fo	V
		لـ ا	otal	7	lissule	•	6	1 1	1101 C-
1355	samo	le					'		
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			} :						
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Purge data continued on next sheet?



WELL ID: TW-8

1. PRO	JECT INF	ORMA	TION								
Project	Number: <u>145</u>	1096	Task Nun	nber: 600		Area of Concern:					
Client:_/	Macgrego	9/				Personnel: BS					
Project I	Location:					Weather: SURAY - 70 F					
2. WELI	L DATA		Date Me	easured: <u>ජ</u>	19.14	Time:	500	Temp	orary Well: □Yes □No		
Casing I	Diameter: 31	4 ine	ches	Type: 7 PV	C 🔾 Stainless	Galv. Steel	☐ Tefion®	•	•		
Screen Diameter: 3/4inches Type: 7 PVC Stainless Galv. Steel Teflon® Other:											
Total De	epth of Well:	44.76	feet	From: 🛭 Top	p of Well Casin	g (TOC) 🛚 T	op of Protectiv	/e Casing □ (Other:		
Depth to	Depth to Static Water: 37.57 feet From: C/Top of Well Casing (TOC)										
	Product:		feet	From: 🗆 To		g (TOC) 🚨 T	op of Protectiv	ve Casing 🔘	Other:		
Length o	of Water Colum	nn: 1.10	feet	Well Volume		gal	Screened I	nterval (from	GS):		
	a= a a= 4							ell = 0.653 gal/	ft 6-in well = 1.469 gal/ft		
	GE DATA			Irged: <u>3 - 1</u> 1 Bladder Pump					Equipment Model(s)		
Purge M	lethod: 🗀 Ba						ump	1. <u>()</u>	D Bladdy		
Materiak	s: Pump/Bailer	. 🛘 Polyetř	nylene 🗗 Sta ited 📮 P	ainless PVC repared Off-Site	☐ Teflon® 5	Other: aned Dispos	sable	2. _/ /	¥-50		
Material:	s: Rope/Tubip	Polyeth		lypropylene ared Off-Site	•			3. 45	1-650		
1	to Purge (mini			oared Off-Site volumes or <u></u>		gallons 5	ole - (.L)	7 4. D	727-15CE		
	to Purge (mini Il purged dry?	mum): <u>∕</u> □ Yes		Pumping Rat		gallons 🛂 gal/min	- , - •	. •	Calibrated?		
1143 776	Cum. Gallons	pH	Temp	Spec. Cond.	ORP	DO	Turbidity				
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments		
1522	0.0	6.94	23.72	0.592	180.6	6.23	849	37.80'			
1532	0.16	6.70	23.47	0574	189.6	5.31	383	38.10			
1542	0.40	6.74	23.48	0.577	175.8	5.10	77.9	38.25			
1552	0.50	674	23.30	0.578	168.1	5.16	5.59	38.45			
140	0.60	6.79	23.39	0.580	159.1	5.11	3.70	38.65	7		
			r						a continued on next sheet?		
4. SAMF	PLING DA	·ΤΑ						Geoc	hemical Analyses		
Method(s	s): 🔲 Bail	ler, Size: rifugal Pump	Peristal	Bladder Pump tic Pump 🖸 Ine	🗅 2" Sub. Purtial Lift Pump	mp □ 4" Sub. □ Other:	Pump	Ferro	us Iron: mg/L		
Materials	Pump/Bailer			inless 🗆 PVC epared Off-Site				DO:	mg/L		
Materials	s: ubing/Rope				,			Nitrat	e: mg/L		
	Water at Time							Sulfat	te: mg/L		
Sample I	10:14048-1	N-8 Sample D		IU Sample T		# of Contai		į	nity: mg/L		
	e Sample Colle				-	# of Contai		Aivali	my myr.		
	ent Blank Colle		•								
5. COM	MENIO	ta	ch re	s-lfr =			·	· · · · · · · · · · · · · · · · · · ·			
						· · · · · · · · · · · · · · · · · · ·					
Note: Include d	comments such a	s well cond	ition, odor, p	resence of NAPL	., or other item:	s not on the field	data sheet.				
							12/				
FORM GW-	2 (Rev 051812 -	- sej)					Signature				

1602



WELL ID: TW-8

3. PURO	GE DATA				<u>()</u>				
Time Re	Cum. Gallons	pН	Temp	Spec. Cond.		DO	Turbidity	Water Level	C
	Removed (gal)	±0.1 su		> of ±3% or ±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		Comments
[6]	0.80	6.81	23.74	0.581	152.5	5.08	3.02	38.74. 37.85	
1621	(.00	6.77	23.16	0.502	191.7	5.12	18.	37.85	
1625	colle	المرا	sample				1.98		
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A second Heavy									

Purge data continued on next sheet?

Signatur

FORM GW-2 (Rev 051812 - sej)



WELL ID: 7W-9

									·····			
	JECT INF											
Project	Project Number: 145014 Task Number: 600 Area of Concern:											
	Macarea:					Personnel: 85						
Project I	Location:	Albany	, GA			Weather: \$	UNDY	N50.	P			
2. WELI	L DATA		Date Me	easured: 3	-70-14	Time: 0	730	Te	emnorany W	eli: □Yes □No		
Casing I	Diameter:3/4	/inc	hes		•	Galv. Steel	-					
	اگر _{Diameter:}	,	thes	Type: □≠∨	C Stainless	; □ Galv. Steel	□ Teflon®	Other:_				
	epth of Well: 4	111 2 4	feet	From: To	p of Well Casin	g (TOC) 🗅 To	op of Protectiv	e Casing	☐ Other:			
Depth to	Static Water	36.68	feet	From: 7 To	p of Well Casin	g (TOC) 🗖 To	op of Protectiv	e Casing	Other:			
Depth to	Product:		feet	From: 🗆 To	p of Well Casin	g (TOC) 🛚 T	op of Protectiv	e Casing	Other:			
Length o	of Water Colum	nn 8	feet	Well Volume			Screened In					
		٠,		Note: 1-in well	= 0.041 gai/ft	2-in well = 0.163	3 gal/ft 4-in w	ell = 0.653	gal/ft 6-in	well = 1.469 gal/ft		
	GE DATA	" O				Time:				ipment Model(s)		
Purge _. M	lethod: D Ba	iier, Size: trifugal Pum	p 🗆 Perista	a Bladder Pum _i Itic Pump □ Ind	o ⊔ 2" Sub. Pi ertial Lift Pump	ımp 🚨 4" Sub. 🚨 Other:	Pump			Bladde		
	s: Rump/Bailer		ylene 🖸 Sta	inless 🗆 PVC	☐ Teflon® C			2	MP-5	50		
Materials	s: Rope/ ubing	`		•	•			3	431-	556		
								/ . 4.	DET	-15CF		
	to Purge (minir				•	_	- 1.6	Y	Calibra	eted? ⊿ Yes □ No		
Was wel	Il purged dry? Cum. Gallons	☐ Yes	Temp	Spec. Cond.	te:	gai/min DO	Turbidity	1		74 103 4 10		
Time	Removed			 	<u> </u>	> of ±10% or		Water Le	vel	Comments		
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU					
0852	ひの	6.22	18.03	0.643	228.0	5.99	192	34.	15'			
0902	0.10	6.84	19.13	0.601	168.7	5.51	37.9	37.6	,5			
0912	0.50	6.86	19.55	0.609	167.0	5.27	6.67	38.0	5			
0922	0.75	685	19.57	0.616	168.2	5.13	779	386	6			
1927	0.95	601	1947	0.620	1660	499	134	39 n	1/			
V136	0.15	4.0C	1 1. 1.		14%,-	(, (1.79	Purge	data contin	ued on next sheet? 😉		
4. SAME	PLING DA	TA						i _		l Analyses		
Method(s	🖸 Bail	ler, Size:		Bladder Pump	□ 2" Sub. Pu	mp 🔲 4" Sub.	Pump			: mg/L		
Matariala	Pump/Bailer	□ Polvethy	dene 🔏 Stat	iic Pump wine inless @PVC	•	Other:						
	$\boldsymbol{\varkappa}$	☐ Dedicate	ed DiPro	epared Off-Site	Field-Clear	ned 🗆 Dispos		DO		mg/L		
Materials	s:(Tubir)g/Rope	Dedicate	riene u Poly ed 🗓 Prepa	ypropylene 🔲 ared Off-Site I	тепоп® ⊔ Nyl ⊒ Field-Cleaned	on Uther: Disposab	le	Ni	trate:	mg/L		
Depth to	Water at Time					? 🗆 Yes 🔼	No a	Sı	ılfate:	mg/L		
Sample I	D:4079-7	Sample D	ate: <u>3 • 20 •</u>	19 Sample 1	Time: 100°	2 # of Contain	ners:	All	kalinity:	mg/L		
	e Sample Colle					# of Contain						
Equipme	nt Blank Collec	cted? 🚨 `	∕es. Æ i No	ID:		# of Contain	ners:	<u> </u>				
5. COMI	MENTS	H	ach	realt	·	0-1	Malu					
							<u> </u>					
Note: Include o	comments such a	is well condi	tion, odor, pr	esence of NAP	L, or other items	not on the field	data sheet.			,		
							A STATE OF THE PARTY OF THE PAR)	_	_		



WELL ID: TW-9

3. PURO	SE DATA	(contin	ued fror	n page	<i>l</i>)				
	Cum. Gallons	рH	Temp	Spec. Cond.	1	DO	Turbidity		· · · · · · · · · · · · · · · · · · ·
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
0942	i			0.627			1.49	39.5	
0952				0.635		4.77	1.61	39.95	
1002	1.80	6.77	1995	0.644	182.0	4.68	1.51	40.25	
1009	colle	1 3	angl	אט (91	5 well	1 1 2	vare.s.	
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Purge data continued on next sheet?

FORM GW-2 (Rev 051812 - sej)



1 PRO.	JECT INF	ORMA.	TION			···········			
	Number: 145			nber: 600		Area of Cond	ern:		
•	MALGrea		, aon man			Personnel:	6		
		Alban	1, GA					cloudy,	~ 60.F
2. WEL	L DATA		Date Me	easured: 3	.20.14	Time:	015	Tem	porary Well: ☑Yes ☐No
Casing I	Diameter: 3/	'4 inc	ches .	Type: PYPV	C 🗆 Stainless	Galv. Steel	☐ Teflon®		•
	Diameter: 31		ches	Type: 9/PV	C 🗆 Stainless	Galv. Steel	☐ Teflon®	Other:	
	pth of Well: <u>4</u>		feet	From: 7 To	p of Well Casin	g (TOC) 🚨 T	op of Protectiv	ve Casing 🚨	Other:
Depth to	Static Water	<u> 36.32</u>	feet	From: 🗗 To	p of Well Casin	g (TOC) 🗀 T	op of Protectiv	/e Casing 🛚	Other:
	Product:		feet			g (ТОС) 🗆 Т	op of Protecti	ve Casing 🛚	Other:
Length o	of Water Colum	ու <u>Տ.Վ(Ն</u>	feet	Well Volume		gal			GS):
0 0110	DATA					***************************************		/ell = 0.653 ga	l/ft 6-in well = 1.469 gal/ft
	SE DATA	iler. Size:				Time: 10			Equipment Model(s)
Purge M	ethod: Cent					ump 🛚 4" Sub			NED Bladde P
Material	s: Rump Bailer	□ Polyeth □ Dedica	yiene ⊠ *Sta ted □ P	ainless 🗅 PVC repared Off-Site	☐ Teflon® ☐ Field-Clea	□ Other: ned □ Dispo	sable		18-50 151-556
Material	s: Rope/Tubing	D Polyeth	ylene 🗀 Po	lypropylene 🗆	Teflon® □ Ny □ Field-Cleans	/lon □ Other:_ ed Disposal	hle		-
Volume	to Purge (minir							4.—	1127-19CE
	I purged dry?	☐ Yes	•	Pumping Rat		gal/min			Calibrated?
	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Leve	l Comments
1044	d D	6.92	19.60	0.546	80.5	6.52	803	36.40	, ,
1054	0.10	6.60	19.64	0.516	229.5	5.52	257	36.40)
1104	0.25	671	20.20	0.5/3	749.2	5.60	65.7	36.40	e e e e e e e e e e e e e e e e e e e
1114	0.45	6.70	20.62	0.5/2	264.3	5.43	24.8	36.40	
1124	060	6.68	20.66	0.510	267.2	5.60	9.22	36.4	
., - (0.60	H - W D		1	1		(,	Purge da	ata continued on next sheet?
4. SAMF	PLING DA	TA		_				Geo	chemical Analyses
Method(s	s): 🔲 Bail	ler, Size:		Bladder Pump	2" Sub. Pu	mp □ 4" Sub. □ Other:	Pump	Ferro	ous iron: mg/L
Materials	s: Pump/Bailer	☐ Polyethy	/lene ≰ Sta	inless 🗆 PVC	□ Teffon® □	Other:		DO:	
	-	☐ Dedicate	ed 🗅 Pr	epared Off-Site	Field-Clear	ned 🗀 Dispos			
	: Tubing/Rope					•		Nitra	
Depth to	Water at Time D/ <u>4079</u> -7	of Sampli	ing:	<u>l</u>	Field Filtered	d? □ Yes 🖊	ک No	Sulfa	
								Alka	linity:mg/L
	Sample Colle		•					į	
	nt Blank Collec		·						
5. COM	MENTS	HaL	h (c	sulfs	E 6	0.1	mg/L	•	
					MANAGER WAS NOT ASSESSED THAT				
Note: Include	comments such a	s well cond	ition, odor, n	resence of NAPi	L. or other item:	s not on the field	l data sheet		WALLES WALLES
			, j					2	



WELL ID: 7W-10

3. PUR	GE DATA	(contin	ued fror	n page	<u>(</u>)				
	Cum. Gallons		Temp	Spec. Cond.	ORP	DO	Turbidity		_
Time	Removed (gal)	±0.1 su		±10 µS/cm	±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	
1134	0.75	6.70	21.04	0.508	259.4	5.72	5.31	36.40	
1135	Coll	ect	sam	Ple					

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	7								
1						·	<u> </u>		
· ·								<u> </u>	ntinued on next sheet?

Purge data continued on next sheet?



WELL ID: 70-11

4 000	ITOT INC	ODMAA	TION						
	JECT INF و ليو			. 600)				
	Number: 17.		Task Nun	nber: 600	<u> </u>	Area of Conc	_		
		Albay	(a			Personnel:		ν コ ゚ ヨ・	<i>F</i>
		nivery					Orry .		
2. WEL	_		Date Me	easured: <u>3-</u>			30		oorary Well: ∕∆Yes □No
	Diameter: 3		ches	,		Galv. Steel			
	Diameter: 5		ches	,		s □ Galv. Steel	☐ Teflon® (Other:	
	pth of Well 2		_feet	,	p of Well Casin			e Casing 🛚	
Depth to	Static Water:	40.87	_feet	,	p of Well Casin		op of Protectiv	_	Other:
	Product:		feet		p of Well Casin		op of Protectiv	re Casing 🛛	Other:
Length o	of Water Colun	nn:[- 	feet	Well Volume		gal gal = 0.16:		nterval (from	GS): /ft 6-in well = 1.469 gal/ft
			Data Di			in a surface and a submitted of the subm		en – 0.000 gan	
	GE DATA	ilas Ciras		irged: 3-1 Bladder Pump	D O' Cub D	Time: <u>【り</u> ump □ 4" Sub.	Duman		Equipment Model(s) EN Bladdu
Purge M	ethod: Gen	trifugal Pum	p 🗅 Perista	altic Pump 🛭 Ine	ertial Lift Pump	Other:	·r		MP-50
Materials	s.(Pump/Bailer	Polyeth		aintess 🗅 PVC repared Off-Site			sable		
Materials	s: Rope/ubing	Polyeth	nylene D Po	olypropylene 🖸	Teffon® C Ny	/lon Dicher:	nla -	3	11-656
Volume	to Purge (mini	~		volumes or		gallons $5 imes$	-3.B	4	DZT-16CE
	I purged dry?	☐ Yes		Pumping Rat		gal/min			Calibrated? ДУ́es ☐ No
7745 1761	Cum. Gallons	рН	Temp	Spec. Cond.	1	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	1		> of ±10% or	≤ 10 NTU	Water Level	Comments
1627	- 4	101	00 67	±10 μS/cm	±20 mV	±0.2 mg/L	Ja/	11100	- /
(7) +	0.0	0.06	22.12	0.679	18.1	6.65	716	7/.20	7
1547	0.50	6.73	2/.41	0.639	46.5	5.77	9 +9	41.25	
1557	0.70	6.69	21.06	0.635	60.8	5.57	>1000	41.25	
1407	1.00	6.74	20.91	0.635	74.6	5.45	336	41.25	
1417	1.20	6.79	21.24	0.635	82.8	5.31	90.2	41.75	
						1	<u> </u>	Purge da	ta continued on next sheet?
4. SAMF	PLING DA	ΛTA		•				Geod	chemical Analyses
Method(s	s): 🛭 Bai	iler, Size: rifugal Pumi	D Perista	⊅ Bladder Pump Itic Pump □ Ine	□ 2" Sub. Pu	mp □ 4" \$ub. □ Other:	Pump	Ferro	ous Iron: mg/L
Materials	s: Pump/Bailer	. 🖸 Polyeth	ylene Z Sta	tinless D PVC repared Off-Site	☐ Teflon® ☐	Other:	ahle	DO:	mg/L
Materials	s: Tubing/Rope			iypropylene 🚨 i				Nitra	te: mg/L
	Water at Time			iaieu Oif-Site I		d? ☐ Yes 』		Sulfa	ate: mg/L
				<u>14_</u> Sample∃				Alkal	linity: mg/L
	e Sample Colle			1./-0	9-DUP	# of Contai			
· ·	nt Blank Colle		/	111.0	19-68-0	# of Contai	ners: 2		
5. COM	MENTS			142	79-EB-	-2 (c			
	ach fie	u +	154 N			Mall			
						U	·		
Note: Include	comments such	as well cond	lition, odor, p	resence of NAP	L, or other item	s not on the field	data sheet.		

Signature

1607



1627

1637

1647

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-L

3. PURGE DATA (continued from page Temp Spec. Cond. **ORP** Turbidity Cum. Gallons Time Removed Water Level Comments > of ±3% or |> of ±10% or |> of ±10% or ≤ 10 NTU ±2°C ±0.1 su (gal) ±0.2 mg/L ±10 μS/cm ±20 mV 40 41.25 41.25 3.20.14 0.633 104.2 sample

Purge data continued on next sheet? $\ \square$

Signature



1. PRO	JECT INF	ORMA	TION						
Project i	Number:		Task Num	ber:		Area of Cond	cern:		
Client:	Macg re	7				Personnel:_			
Project I	_ocation:	Albany	, GA			Weather:	SUMY	N 70'1	
2. WEL				easured:3-			7		orary Well: □Yes □No
·-	Diameter: 31		ches	Type: PV	C 🗆 Stainless	s □ Galv. Stee	el 🛘 Teflon®	Other:	
	Diameter: 3		ches			s 🛚 Galv. Stee			
	pth of Well 25	11 🐟	feet	1.					Other:
•	Static Water:	, -	feet-	•					Other:
· ·	Product:	106	feet						Other:
Length o	of Water Colun	nn: <u>14.7</u>	feet	Well Volume	= 0.041 gal/ff	gal gal gall = 0.16		•	GS): ft 6-in well = 1.469 gal/ft
3 PHR	SE DATA		Date Pu	rged:多・7				1,000 gan	Equipment Model(s)
	ethod: Cen								D Hadde
		□ Polyoth		ltic Pump □ Ine ainless □ PVC					P-50
Material	s:/Pump/Bailer	⊓ Dedica	ted 🔼 Pi	repared Off-Site	Field-Clea	aned 🛭 Dispo			1-556
Material	s: Rope Tubin	☐ Polyeti ☐ Dedica	iylene □ Po ted □ Prep	lypropylene □ pared Off-Site	☐ Field-Cleane	ed 🖾 Disposa	able	-	19-15ce
Volume	to Purge (mini	mum): <u>3</u>	well v	volumes or 2	1,4	gallons X	=4.00	4. D C	
	l purged dry?	☐ Yes		Pumping Rat	te:	gal/min		 	Calibrated? □Yes □ No
Time	Cum. Gallons Removed	pН	Temp	Spec. Cond.	ORP	DQ	Turbidity	Water Level	Comments
ANIC	(gal)	±0.1 su	±2°C	> of ±3% or ±10 μS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	7.atol Cevel	Comments
1318	0.0	6.95	24.95	0.595	-19.2	8.09	917	41.70	
1328	0.10	6.62	23.47	0.586	15.4	8.59	338	43.76	/
1339	0.55	6.71	23.44	0.583	16.4	9.26	81.3	44.55	
1349	0.75	6.83	23.77	0.586	17.7	8.93	51.6	44.87	
1359	100	6.76	22.57	0.586	23.9	8.22	27.4	44.8	7
		14	1					Purge dat	a continued on next sheet?
4. SAMF	PLING DA	ATA						Geoc	hemical Analyses
Method(s): 🔲 Bai	iler, Size: rifugal Pump	Peristal □	Bladder Pump tic Pump 🗅 Ine	□ 2" Sub. Pu	ımp 🔲 4" Sub 🚨 Other:	. Pump	Ferro	us Iron: mg/L
Materials	: Pump/Bailer			inless PVC epared Off-Site	•			DO:	mg/L
Materials	s: Tubing/Rope							Nitrate	e: mg/L
	Water at Time			ared Off-Site		d Disposa d? □ Yes		Sulfat	e:mg/L
Samole	1014039-1	Sample D	ուց ate: 3 - Շ ու կ	M Sample 1	Time: 1430	ur ⊔ Yes '#ofConta	•	i	nity: mg/L
	e Sample Colle					# of Conta			
	nt Blank Colle		•			# of Conta			
5. COMI	MENTS	Urel	- فد م	<i>کال</i>	- Z o	1 80 00	/L	i	
o. Colvii	VILITIO	TIACH)CC\$	<u> </u>		· my			
		WARRIES WAS TRUTT T	***************************************						
Note: Include	comments such	as well cond	ition, odor, pi	resence of NAP	L, or other item	s not on the fiel	d data sheet.		7



WELL ID: Tい-12

B. PUR	GE DATA				<u>()</u>				***************************************
Tim-	Cum. Gallons	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Mater Lavel	Commonto
Time	Removed (gal)	±0.1 su	•	> of ±3% or ±10 μS/cm	±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1409		6.88	23.15	0.587 0.585 0.586	13.2	8.80	9.64	44.70	
419	1.40	6.89	23.44	0.585	20.7	8.60	6.43	44.70	W- 17410.
1429	1.55	0.88	23.24	0.586	13.7	8.79	4.85	44.76	
1430	Call.	ccs	samo	h					·
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		-						Purga data contin	ued av payt shee

Purga data continued on next sheet?



WELL ID: TW-13

									
	JECT INF		TION						
Project I	Number: 145	094	Task Num	_{ber:} (၂၀၀		Area of Conc	ern:		
Client:_	Macayco	000				Personnel:	Bs		
Project I	Location: A	thany	, 6 A			Weather: S	Unry	N 77	1.6
2. WELI	L DATA		Date Me	asured:3	21.14	Time: <u>/ 3</u>	50	Temp	orary Well: ∠2Yes □No
Casing I	Diameter: 3/4	ind	hes	Type: 🗹 PV	C □ Stainless	Galv. Steel	☐ Teflon® (Other:	
Screen	Diameter: <u>3/4</u>	inc	hes	Type: D/PV	C 🗅 Stainless	Galv. Steel	☐ Teflon® (Other:	 -
Total De	pth of Well:	977	feet	From: To	p of Well Casin	g (TOC) 🛚 T	op of Protectiv	e Casing 🚨 (Other:
Depth to	Static Water.	0.0	feet	From: TyTo	p of Well Casin	g (TOC) 🗀 To	op of Protectiv	e Casing 🔲 0	Other:
Depth to	Product:		feet		p of Well Casin	g (TOC) 🗆 T	op of Protectiv	e Casing 🔲	Other:
Length o	of Water Colum	ın: \A.	feet	Well Volume	•	_ gal		iterval (from	,
0 51157		000000						ell = 0.653 gal/	ft 6-in well = 1.469 gal/ft
	SE DATA	iler, Size:		rged: 3.1		Time: <u>14</u> .mp 🗆 4" Sub.			Equipment Model(s)
Purge M	lethod: Cent	rifugal Pum	p 🗆 Perista	Itic Pump 🗀 Ine	ertial Lift Pump	☐ Other:			ED Bladde
Material	s: FumpBailer	☐ Polyeth ☐ Dedica	ylene ∕	inless PVC repared Off-Site	☐ Teflon® ☐ Field-Clea	☐ Other: ined ☐ Dispos	sable		P-60
Materials	s: Rope/Tubing	Polyeth	viene 🗆 Pol	vpropvlene 🛚	Teflon® □ Nv	lon 🗆 Other:			71-656
	to Purge (minir	_ n negica				d Delisposat gallons 5 V	. 'Z. /A	4. <u>4</u>	AT-15CE
	to Purged dry?	num)		Pumping Rat		gailons ' y gal/min	<i>D y</i> , ,	ı	Calibrated? Yes □ No
vvas we	Cum. Gallons	pH	Temp	Spec. Cond.		DO	Turbidity		
Time	Removed	±0.1 su	±2°C	3	1	> of ±10% or	≤ 10 NTU	Water Level	Comments
1401	(gal)	1.87	15.65	±10 μS/cm	±20 mV	±0.2 mg/L	 	40 20	44
		1.1-1	06.60	0.502	-27.2		>1000	40,72	
1411	0.25	6.4+	25.57	0.580	.3.0	6.03	594	40.80	
1421	0.50	6.52	24.97	0.579	(1.0	5.73	249	40.81	
1431	0.49	6.56	U.80	0. 57 B	20,0	5.85	132	40.81	
1441	1.10	6.61	29.11	0.577	26.3	5.63	63.1	40.83	
								Purge dat	ta continued on next sheet?
4. SAMF	PLING DA	.TA						Geoc	hemical Analyses
Method(er, Size: ifugal Pump	Peristal	rBladder Pump tic Pump □ Ine	☐ 2" Sub. Pu rtial Lift Pump	mp 🔲 4" Sub. Other:	Pump	Ferro	us Iron: mg/L
Materials	s: Pump/Bailer	☐ Polyethy	/lene 🗘 Stai	nless DPVC	☐ Teflon® ☐	l Other:ned □ Dispos	ahle	DO:	mg/L
Materials	s: Tubing/Rope				<u> </u>	•		Nitrat	e: mg/L
	Water at Time					d ywoisposab d? □ Yes (Sulfat	te: mg/L
Sample	ID: 14080	Sample D	ate:3.21.	14 Sample 1	time: 1534	# of Contai	7	· Alkali	
	Sample Colle				· · · · · · · · · · · · · · · · · · ·	# of Contai			,
	nt Blank Colle		,			# of Contai			
5. COMI	MENITO			·				<u> </u>	
J. GOIVII	VILIVIO		· 		~ · · · · · · · · · · · · · · · · · · ·				

Note: Include	comments such a	s well cond	ition, odor, pr	esence of NAPI	L, or other item	s not on the field	data sheet.		
								/	

Signature



WELL ID: TW-13

3. PUR	GE DATA	(contin	nued fron	n page)				
Time	Cum. Gallons Removed	,	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
Time	(gal)	±0.1 su	·····	±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		Comments
145)	1.75		ı	0.575	40.4			40.83	
1501	·			0.576	44.8	5.70	29.5	40.83	<u> </u>
1511	2.25			0.374		5.74	18.1	40.83	
1521	2.5	6.60	24.82	0.574	60.2	6.73	14.7	40.83	****
1531	2.75	6.57	24.76	0.574	63.6	5.77	7.70	40.83	Acoustic Allegation
1535	Colle	ct	sample						
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•	TADORA SIG			**************************************					
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Purge data continued on next sheet?



WELL ID: 76-14

1 DDO	JECT INF	ODMAN.	TION						
	Number: [45]			hor (000		Area of Conc	orn:		
-	Macacege		I dok Nuli	iber. (7000		Personnel:			
9	ocation:_A		GA			Weather:		60.F	
2. WELI				ageured:31	21.10				orary Well: Wes ONo
	Diameter: 3	/ ப in/	ches			Galv. Steel			orary Well: Layes UNo
	Diameter: 3/		ches	,		Galv. Steel			
	pth of Well:	~~ ~ ,		From: To			op of Protectiv		Other:
	Static Water:	<u> </u>		From: 7 To	p of Well Casin	g (TOC) 🛚 T	op of Protectiv	e Casing □ C	Other:
	Product:		feet	From: 🗆 To	p of Well Casin	g (TOC) 🗀 Т	op of Protecti	ve Casing 🔘 0	Other:
Length o	of Water Colum	nn: 9.7	_fleet	Well Volume		_ gal		,	GS):
						,		/ell = 0.653 gal/f	t 6-in well = 1.469 gal/ft
	SE DATA			rged: 3.2		Time: <u>C</u> imp 🗅 4" Sub.			Equipment Model(s)
Purge M	ethod: ☐ Ba ☐ Cen	trifugal Pum	p 🗆 Perista	ltic Pump 🗆 Ine	ertial Lift Pump	Other:	. Fullisp		ED Bladde
Material	Pump/Bailer	Polyeth		ainless 🗀 PVC repared Off-Site	☐ Teflon® ☐ ☐ Field-Clea	3 Other: ined □ Dispo:	sable		18-50
Materials	s: Rope/Tubin	Polyeth	nylene 🗆 Po	lypropylene 🗆	Teflon® □ Ny	rlon 🖸 Other:_ d 🗷 Disposal	hlo	٠ـــ	51-554
Volume	to Purge (mini	mum):	yed a riek	olumes or	1.43	gallons 5	=40	5 4.4)ET-154E
	I purged dry?	☐ Yes		Pumping Ra		·			Calibrated? ✓ Yes □ No
	Cum. Gallons	рН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1040	0.0	6.60	19.62	0.538	128.8	6.47	7000	42.50	
1050	0.50	6.61	19.96	0.532	78.7	5.81	826	42.50	,
1100	0.60	6.63	19.96	0.532	71.8	5.32	912	42.50'	
1100	1.00	6.63	20.05	0.531	69.7	5.59	623	42.50	
1120	1.20	6.63	20.09	0,530	71.8	5.57	292	42.50) <i>′</i>
						·		Purge data	a continued on next sheet? 😉
4. SAMF	PLING DA	ATA						Geocl	nemical Analyses
Method(:	s): 🚨 Bai	iler, Size: rifugal Pump	☐ Peristal	I Bladder Pump tic Pump □ Iné	2" Sub. Pu rtiai Lift Pump	mp 🔲 4" Sub. Other:	Pump	Ferro	us Iron: mg/L
Materials	s: Pump Bailer	. Polyethy Dedicat	ylene Z Sta	inless D PVC	☐ Teflon® ☐	Other: ned □ Dispos	sable	DO:	mg/L
Materials	s: (Tubing/Rope	Polyeth	ylene 🗆 Pol	ypropylene 🗆	_ Teflon® □ Ny	ion 🗆 Other:		Nitrate	e: mg/L
	Water at Time	☐ Dedicat	ed LI Prep	ared Off-Site	Field-Cleane	d ⊿Disposat d? □ Yes		Sulfat	e:mg/L
Sample	1080-1	Sample D	ate 3 .1 1.	.14 Sample 3	Time: \115	# of Contai	Λ	Alkaliı	-
	e Sample Colle				•	# of Contai			
-	nt Blank Colle		•				iners:	i	
			ſ			A		į.	
5. COMI	VILITIO	1100	N (8	ovys =	- U.L	myll	·		
						·			THE STATE OF THE S
Note: Include	comments such	as well cond	lition, odor, p	resence of NAP	L, or other item	s not on the field	l data sheet.		

1110



WELL ID: TW-14

3. PUR	GE DATA	(contin	nued fror	n page	1)				
	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1130	1.50	6.63	20.17		· · ·	5.55	98.7	42.50	
1140	1.75	~ ~ _	:	0.530	78.0	5.56	53.9	42.50	MILANA.
1150	2.00			0.530	81.6	5.57	34.8	4250	<u>"</u>
1200	2.25			0.530	,	5.58	21.4	42.50	
1210		·				5.56	16.4	42,50	
1220	2.80	6.63	20.44	0.529	89.3	5.55	9.11	12.50	
1225	Colle	ct	sant	ch		1			
	1								
	4								
]		
				1					
			Power and the control of the control	4					
			2						
						•			
					,				

					•				
								Division alarma	ntinued on next sheet?

Purgo data continued on next sheet?



1. PRO	JECT INF	ORMA	TION						
Project I	Number: 149	096	Task Num	nber: 600		Area of Conc	ern:		
Client:_	Macare	901				Personnel:	_		
Project I	ے اے _ocation:	Kloan	6 <u>}</u>			Weather:	unny	, ~ 29	<u> </u>
2. WELI	L DATA		Date Me	easured:3	21.14	Time:	200	Temp	orary Well: DYes DNo
Casing I	Diameter: <u>3(</u>	<u>ط_</u> ine	ches	Type: pl PV	□ Stainless	Galv. Steel	☐ Teflon®	Other:	<u> </u>
Screen I	Diameter: 3	(a) in	ches	Type: □/PV0	C 🔾 Stainless	Galv. Steel	☐ Teflon®	Other:	
Total De	pth of Well:_	12.99	feet	From: Top	o of Well Casin	g (TOC) 🗆 Te	op of Protectiv	e Casing 🚨	Other:
Depth to	Static Water:	32.24	_feet	From: Top	o of Well Casin	g (TOC) 🗅 To	op of Protectiv	re Casing 🔲 (Other:
Depth to	Product:		feet			g (TOC) 🚨 T	op of Protectiv	re Casing 🔲	Other:
Length c	of Water Colun	_{nn:} 10,4	feet	Well Volume					GS):
								ell = 0.653 gal/	ft 6-in well = 1.469 gal/ft
	SE DATA					Time: 17			Equipment Model(s)
Purge M	ethod: 🗀 Ba						rump		ED Bladder
Materials	s: Pump/Bailer	. 🗅 Polyeth	nylene 🗹 Sta ited 🔲 Pi	ainless 🗆 PVC	☐ Teffon® ☐	Other: ned Dispos	sable	2	MP-50
Materials	s: Rope Tubin	Polyeti	nylene 🗆 Po	lypropylene 🔾	Teflon® □ Ny	fon 🗆 Other:		3. 1	151-554
		Li Dedica				d Disposat	ole	4	DRT-15CE
	to Purge (mini	mum): Yes		olumes or Pumping Rat					Calibrated?
was wei	I purged dry? Cum. Gallons	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	1	<u></u>
Time	Removed	±0.1 su	±2°C	· · · · · · · · · · · · · · · · · · ·		> of ±10% or	≤ 10 NTU	Water Level	Comments
	(gal)		1	±10 μS/cm	±20 mV	±0.2 mg/L	1/01.1	20 00	
(205	0.0	7.10	22.85	0.459	21.4	6.34	444	32.89	
1215	0.50	098	22.56	0.466	19.6	5.13	41.2	32.89	**************************************
1225	0.75	7.02	22.85	0.462	(8.8	5.06	14.6	32.89	
1235	1.00	7.02	22.81	0.444	19.2	5.06	4.74	328	7
1245	1.25	7.04	27.53	0.436	18.7	5.15	3.28	3289	,
1250	ادرا	lees	59M	de				Purge dat	a continued on next sheet? 🛛
4. SAMF	PLING DA	ATA	•					Geoc	nemical Analyses
Method(s	s): 🗀 Bail	ler, Size: rifugal Pum	☐ Peristal	∕ Bladder Pump tic Pump ☐ Inei	□ 2" Sub. Pu tial Lift Pump	mp □ 4" Sub. □ Other:	Pump	Ferro	us Iron: mg/L
Materials	Pump/Bailer	☐ Polyeth	ylene ☑ Stai ed ☐ Pro	inless □ PVC epared Off-Site	☐ Teflon® ☐	Other:	able	DO:	mg/L
Materials	ubing/Rope	Polyeth	ylene 🗆 Poly	propylene 🗀 🖯	reflon® □ Nyi	on 🗆 Other:		Nitrate	e:mg/L
Depth to	Water at Time			ared Off-Site C		d Çv∕ðisposab l? ⊡ Yes □		Sulfat	e: mg/L
Sample I	D14081-7	Sample D	ate:3·22	Sample T	ime: /250	* # of Contain		Alƙalii	nity: mg/L
	Sample Colle					# of Contain			
	nt Blank Colle		•			# of Contain	ners:		
5. COM	MENTS	Ha	ch re	いけっ	=L0.	l mg	/८	į.	
					ALLEGE ST. T. S. P. S. S. S. S. S. S. S. S. S. S. S. S. S.				
Note: Include d	comments such a	as well cond	ition, odor, pr	esence of NAPL	, or other items	not on the field	data sheet.		
									/

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

1 PRO	JECT INF	ORMA	TION						
	Number: 145			mari (a00		Area of Conc	0.00		
	Maca (eq			'		Personnel:	_		
	ocation:	•	-					Chude	~ 65°P
		7,507.9		. 3					
2. WELI	-								orary Well: 🗚 es □No
	Diameter: 5		ches			Galv. Steel			
Screen (Diameter: <u>3/</u>	<u>4</u> inc	ches			Galv. Steel			
E	pth of Well: \underline{q}	7× ~ 7					•	-	Other:
1	Static Water:	_	feet	,		• • •		-	Other:
•	Product:	/	feet		' ' -			_	Other:
Length o	f Water Colum	nn: <u>[0.7</u>	feet					•	GS): ft 6-in well = 1.469 gal/ft
3 PURC	SE DATA		Data Pu			Time: C			Equipment Model(s)
				- Mindalan Dama		D 40 Cula	m	, Qı	ED Bladder
	ethod: Cent	C Delueth		ltic Pump □ Ine ainless □ PVC			,	دیده ۱۰ م	10-50
	s: Pump/Bailer	☐ Dedica	ted □ P	repared Off-Site	Field-Clea کار	ned Dispos		2. <u>70</u>	14.556
Materials	s: Rope/Tubing	Polyeth Dedica	iylene □ Po ted □ Pred	lypropylene 🗀	Teflon® □ Ny □ Field-Cleane	ion 🗆 Other: d 📮 Disposat	ole .	3	No - 161 =
Volume :	to Purge (minir		•			•		4	DR7-16CE
	I purged dry?	☐ Yes		Pumping Rat					Calibrated? \ Yes □ No
	Cum. Gallons	рH	Temp	Spec. Cond.	ORP	DO	Turbidity		_
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1004	0.0	6.91	20.41	0378	159.8	5.93	507	325	3
1014	0.25	7.23	20.80	0.343	107.7	5.85	482	32.53	
1024	0.50	7.26	20.93	0.334	102.2	5.80	81.0	32.63	,
1034	0.80	7.26	20.90	0.330	99.8	5.80	28.3	<i>32. 53</i>	
1044	1.20	7.28	21.08	0.329	96.3	5.49	14.8	32.53	
								Purge dat	a continued on next sheet? 🔏
4. SAMF	PLING DA	ATA						Geoc	hemical Analyses
Method(s		ler, Size: rifugal Pump				mp 🔲 4" Sub. 🗇 Other:		Ferro	us Iron: mg/L
Materials	: Pump/Bailer	☐ Polyeth		Inless DPVC epared Off-Site			able	DO:	mg/L
Materials	: Tubing/Rope	Polyeth:	ylene 🗅 Pol	ypropylene 🗀 Tared Off-Site	Teflon® □ Nyl	lon 🖸 Other:	le	Nitrate	e: mg/L
	Water at Time	of Sam <u>pl</u>	ing:		Field Filtered	i? □ Yes 및		Sulfat	e: mg/L
Sample I	d: <u>1408(-7</u>	Sample D	ate: <u>3 · 21</u>	.14 Sample T	_{lime:} {	# of Contai	7.	Alkali	nity: mg/L
Duplicate	Sample Colle	ected? 🗆	Yes 🗗 No	ID:	····	# of Contain	ners:	!	
Equipme	nt Blank Colle	cted? 🗀	Yes 📮 No	ID:		# of Contain	ners:		
5. COM	MENTS	Hacı	م رود	Ults =	0.1 mg	1_			

Note: Include o	comments such a	as well cond	ition, odor, pi	esence of NAPI	, or other items	s not on the field	data sheet.		



WELLID: TW-17

B. PUR	GE DATA	(contin	ued fron	n page	<u>()</u>				
	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	+10 uS/cm	+20 m\/	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	
054	1.50	7.27	20.96	0.327	94.8	0327	3.40	32.53	
100	Colle	A S	ande						
, L			y						
······································			1						
			Account of the contract of the					<u> </u>	***************************************
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2

Purge data continued on next sheet?

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

1 PRO	JECT INF	ORMA	TION						
	Number:/_4			ber: 4,00		Area of Conc	ern:		
•	MALGEO					Personnel:	Br		
	_ocation:	,	63			Weather:	SU AM	80. E	
2. WEL	L DATA		Date Me	asured: 3		Time: 0			orary Well: ZíYes □No
Casing I	Diameter: 3/	4 inc	ches			Galv. Steel			
Screen	Diameter: 3/	'4 ind	ches	Type: GPV	C 🗆 Stainless	Galv. Steel	☐ Teffon®	Other:	
	epth of Well: <u>प</u>	. 7 .	feet	From: 🎜 Top	o of Well Casin	g (TOC) 🛚 To	op of Protectiv	e Casing 🛚 🗘	Other:
Depth to	Static Water	3240'	_feet	From: 🗖 To	o of Well Casin	g (TOC) 🗆 To	op of Protectiv	re Casing 🔲 🤇	Other:
Depth to	Product:		feet			g (TOC) 🗖 To	op of Protectiv	re Casing □ 0	Other:
Length o	of Water Colum	nn: <u>0, 0(</u>	feet	Well Volume					GS): ft 6-in well = 1.469 gal/ft
3 DI ID(SE DATA		Data Bu		***************************************	Time: <u>0</u>		en = 0,000 gain	Equipment Model(s)
	lethod: DCen								ED Bladde
				ltic Pump 🗀 Ine inless 🗀 PVC					P-50
Material	s: Pump Bailer	☐ Dedica	ted □ Pi	epared Off-Site	Field-Clea	ned Dispos	able		151-556
Material	s: Rope Tubing	☐ Polyeti ☐ Dedica	iylene □ Pol ted □ Prep	lypropylene 🛚 ared Off-Site	Teflon® □ Ny □ Field-Cleane	/lon ☐ Other: ed Disposat	ole		RT-16LE
Volume	to Purge (mini	mum):	well v	volumes or $\frac{1}{2}$		gallons		4. <u>10</u>	
Was we	Il purged dry?	☐ Yes	·	Pumping Rat					Calibrated? ☐ Yes ☐ No
Time	Cum. Gallons Removed	рН	Temp	Spec. Cond.	ORP	DO > of ±10% or	Turbidity	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		
0902	0.0	6.75	19.68	0.30	66.6	5.28	809	32.40	/
0912	0.25	7.39	19.93	0.244	28.4	5.79	163	32.40	
0922	0.50	7.46	19.98	0.232	36.5	5.89	34.3	32.401	3
0932	0.75	7.45	20.03	0.730	40.8	5.91	19.9	32.40	,
0942	1.00	7.47	20.35	0.229	42.5	5.85	14.6	32.40	
								Purge dat	a continued on next sheet?
4. SAMI	PLING DA	ΛTΑ		_				Geoc	nemical Analyses
Method(s): 🗀 Bai 🗆 Centi	ler, Size: rifugal Pump	☐ Peristal	rBladder Pump tic Pump ☐ Ine	□ 2" Sub. Purtial Lift Pump	mp 🚨 4" Sub. 🗅 Other:	Pump	Ferro	us Iron: mg/L
Materials	s: Rump/Bailer	0.00	ylene Stai	inless 🗆 PVC	☐ Teflon® ☐	Other:		DO:	mg/L
Materials	s: Tubing/Rope				•	ned 🗆 Dispos lon 🗅 Other:		Nitrate	e: mg/L
Donth to	Motor of Time	of Campl	ina		Field Filtere	42 D Vaa 5		Sulfat	
Sample	Water at Time ID: <u>/40<i>6</i>7</u>	W - 18	nig:	·19 Sample 7	rieiu riitered 1959:	d? □ Yes 25 # of Contai	ン	Alkali	<u></u> V
Duplicate	e Sample Colle	oampie D ected?□	Yes 🗘 No	<u> </u>	iilie.	# of Contai			mymmy.
-	ent Blank Colle		•			# of Contai			
						1.	A		
5. COM	C I VI⊐IV	tlach		H5 = <1	· I Ma	12 /	J.AK	(dor.	
			NV						THE RESIDENCE OF THE PARTY OF T
Note: Include	comments such a	as well cond	ition, odor, pi	resence of NAPI	L, or other item	s not on the field	data sheet.		



WELL ID: TW-18

3. PURC	GE DATA					,	1		
Time	Cum. Gallons	рH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
Time	Removed (gal)	±0.1 su		±10 µS/cm	±20 mV	> of ±10% or ±0,2 mg/L	≤ 10 NTU		Comments
952	1.25	7.46	20.45	0.730	43.2	5-86	7.37	32.40	
0955	Co	lles	som	Xi					
	' }								
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							1		
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			*	<u></u>					
	*******		4		<u> </u>				
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Purge data continued on next sheet?



, 550	IEOT INE	00144	TION						
	JECT INF			1 100					
	Number: <u>[45]</u>		Task Num	ber.		Area of Conc			
· ·	Wird Lide		,	·			BS	. (016	
	•	<u>a lbany</u>				Weather:	t	COP	
2. WELL	_	•	Date Me			Time: <u>【O</u>			orary Well: ☐Yes ☐No
	Diameter: 3/		ches	Type: TYPV	C 🗆 Stainless	☐ Galv. Steel	☐ Teflon® (Other:	
	Diameter: <u>3/</u>		ches	•		□ Galv. Steel			
	pth of Well: 4		feet	_					Other:
Depth to	Static Water	53.78	feet				•		Other:
•	Product:	RII	feet					_	Other:
Length o	f Water Colum	nn: <u>"(- (/</u>	feet	Well Volume					GS): t 6-in well = 1.469 gal/ft
2 DUD(SE DATA		Dete Du			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CII — 0.000 guii	Equipment Model(s)
	ethod: G Ba	iler, Size:	Date Pu	í Bladder Pump	2" Sub. Pt	Time: <u>\0</u> '	Pump		ED Bladle
Purge IVI	ethod: 🗆 Cent		_				· · · · · ·		B-50
Materials	:(Pump/Bailer	☐ Polyeth	ted Pr	inless 🗆 PVC epared Off-Site	Field-Clea	□ Other: ned □ Dispos	sable		
Materials	: Rope/(ubing	D Polyeth	ylene 🗆 Pol	ypropylene 🛚	Teflon® □ Ny	lon ☐ Other:_ d	vie		00-1615
Volume t	to Purge (minir	~			1 10	gallons		4	DRT-154E
	l purged dry?	☐ Yes			e:	gal/min			Calibrated? ∕☐ Yes ☐ No
takuvyta. 1	Cum. Gallons	рН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 μS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1024	0.0	756	19.82	0.291	86.7	6.93	875	33.80)^
1034	0.29	7.42	20.29	0.272	60.1	6.47	93.1	33.80	
1044	0.50	7.43	20.34	0.268	75.0	6.37	24.0	33.80	
104	0.75	7.44	20.62	0.268	95.5	6.28	8.60	33.80	
1104	1	7.46	20.86	0.268	104.6	6.28	5.28	33.80	
1105	Colle	4 50	nde					Purge dat	a continued on next sheet?
4. SAMF	PLING DA	.TA	•					Geoc	hemical Analyses
Method(s	s): ☐ Bail	ler, Size: rifugal Pump	Peristal	Bladder Pump tic Pump 🔲 Ine	☐ 2" Sub. Pu rtial Lift Pump	mp 🛄 4" Sub. 🗀 Other:	Pump	Ferro	us Iron: mg/L
Materials	:(Pump/Bailer	☐ Polyethy		nless DPVC			ablo	DO:	mg/L
Materials	: Tubing/Rope			•	,	-		Nitrat	e: mg/L
Depth to	Water at Time	of Sampli				d ∠arDisposab d? ⊡ Yes [Sulfal	e:mg/L
Sample I		W∽ 2.0 ° Sample D		14 Sample T			7	Alkali	nity: mg/L
	Sample Colle			· ·	•	 # of Contai			
	nt Blank Colle		(# of Contai	ners:		
5. COM	MENTS	4	ach 1	esulfi	= 0	l ma	1/4		
					T.				
	th With All Hall								
Note: Include d	comments such a	as well cond	ition, odor, pi	esence of NAPI	L, or other item	s not on the field	data sheet.		



									·····	
1.	PRO.	IECT INF	ORMA [*]	TION						
	Project N	lumber: <u>145</u>	5096	Task Num	_{iber:} <u>600</u>		Area of Conc	ern:		
		Macg/					Personnel:			
	Project L	ocation:	Alban	y 64			Weather:	Partly	Cloudy	1 ~ 79.15
2.	WELL	DATA		Date Me	easured: 3	21.14	Time:(00	Tempo	orary Well: ∠⊒Yes □No
		Diameter: 3		hes	Type: 72 PV	C 🗆 Stainless	☐ Galv. Steel	☐ Teflon® [Other:	
		Diameter: 3/		hes	Type: DPV	C Stainless	☐ Galv. Steel	☐ Teflon® (Other:	
		pth of Well: $\underline{oldsymbol{\psi}^{oldsymbol{\iota}}}$		feet	From: 🎜 Toj	p of Well Casin	g (TOC) 🗆 To	op of Protective	e Casing 🚨 (Other:
	Depth to	Static Water	37.63	feet	From: 🗷 Top	p of Well Casing	g (TOC) 🗆 To	op of Protective	e Casing 🔲 C	Other:
	Depth to	Product:		feet	From: To	p of Well Casin	g (TOC) 🗖 To	op of Protectiv	e Casing 🔲 (Other:
	Length o	f Water Colum	າກ:	feet		: = 0.041 gal/#	-		,	GS): ft 6-in well = 1.469 gal/ft
?	DHD	SE DATA		Data Bu			Time: 16		517 - 0.000 gull	Equipment Model(s)
		ethod: G Cent								D Bladdy
	Purge IVII	Cent		_	ltic Pump □ Ine iinless □ PVC					1P-50
		: Pump/Hailer	Dedicat	ted 🚨 Pı	epared Off-Site	Field-Clea	ned 🔾 Dispos	sable		4
	Materials	: Rope/Tubing	Polyeth	ylene □ Pot ted □ Prep	ypropylene 🛭 ared Off-Site	Teflon® □ Ny □ Field-Cleane	rlon 🗆 Other: d 🗩 Disposat	ole		s1-656
	Volume t	o Purge (minir							4	ORT-15CE
		purged dry?	□ Yes			te:				Calibrated? ✓ Yes ☐ No
	T:	Cum. Gallons	pН	Temp	Spec. Cond.	,	DO	Turbidity	101-411	0
	Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1(o0le	0	6.50	26.63	0.561	22.1	5.46	333	37.74	1
16	الو	0.25	6.38	26.62	0.550	39.1	5.00	31.6	37.74	//
16	26	0.50	6.42	24.32	0.547	59.2	5.02	5.61	37.74	•
16	936	0.75	6.40	26.03	0.543	74.2	4.96	1.76	37.74	
l	46	1.00	6.44	26.24	0.541	76.1	4.93	1.30	37.74	7
									Purge data	a continued on next sheet? 🛛
4.	SAMF	LING DA	TA						Geocl	hemical Analyses
:	Method(s		er, Size: ifugal Pump	D Peristal	⊮Bladder Pump tic Pump □ Ine	☐ 2" Sub. Pu rtial Lift Pump	mp □ 4" Sub. □ Other:	Pump	Ferro	us Iron: mg/L
	Materials	Pump/Bailer	☐ Polyethy	/lene ☐ Stai	nless D PVC	☐ Teffon® ☐	Other:	ahle	DO:	mg/L
	Materials	: Tubing/Rope	Polvethy	/lene □ Pol	⁄propvlene □ °	· Teflon® □ Nvi	on 🗆 Other:		Nitrate	e: mg/L
		しン					d Disposab		Sulfat	e:mg/L
	Sample II	Water at Time D: <i>I4085 - T</i>	7 W - 22 Sample D	ny ate: 3-2/.	Sample 7		d? □ Yes □ Fof Contai		Alkalii	
		Sample Colle					# of Contai		/ tirkdill	mg/L
	-	nt Blank Collec		-			# of Contai			
		· · · · · · · · · · · · · · · · · · ·								
J.	COMIN	MENTS	Hach	Msi	ilts =	20.1	mg/L			
										AND AND AND AND AND AND AND AND AND AND
Note	e: Include d	omments such a	s well condi	tion, odor, pr	esence of NAPI	L, or other items	s not on the field	data sheet.		



1 PRO	JECT INF	ORMA	TION						
	Number: 145			nber: (,00		Area of Conc	orn.		
•	Maca re		, Task Hull	ibei		Personnel:	<u>ም</u> ር		31000-1 - 1000000-1
	Location:	Alberry	GA			Weather:	UNDU A	70F	-
		7	<u> </u>	. 7	all u		777	17 0	
2. WEL	1		_	easured: <u>3-</u>		Time: 12	-50		orary Well: □Yes □No
	Diameter: 20		ches	Type: DPV		Galv. Steel			,
	Diameter: 3/		ches			Galv. Steel			<u> </u>
	pth of Well:			1	p of Well Casin		op of Protectiv	-	Other:
Depth to	Static Water;	<u> </u>	_feet	From: 7 To			op of Protectiv	=	Other:
· ·	Product:		feet		_ 4_	g (TOC) 🛄 To	op of Protectiv	re Casing 🔲 (Other:
Length o	of Water Colum	nn: <u>/0.0</u>	feet	Well Volume				nterval (from	G\$): ft 6-in well = 1.469 gal/ft
			5 / 5				311 4-11 W	eii – 0.055 gairi	
	SE DATA			rged: 5.5		Time: 1	239 Pump		Equipment Model(s)
Purge M	lethod: Cen					ımp □ 4" Sub. □ Other:	· · · · · · · · · · · · · · · · · · ·		ED Bladder
Materials	s:(Pump/Baile	Polyeti	nylene ÆSta ited □ Pi	inless PVC	☐ Teflon® ☐	Other:	able		P.50
Materials	s: Rope/Fabini	Polyeti	nylene 🗆 Po	lypropylene 🗆	Teflon® □ Ny	lon □ Other:		3	51-556
		J Li Deuice	eu a riek	aled Oil-Site	Li Fleiu-Cleane	Dispusat	ole	4. <u> </u>	RT-15CE
	to Purge (míni	mum): Yes		rolumes or <u>2</u>		gallons			Calibrated? ∠2 Yes □ No
vvas wei	l purged dry? Cum. Gallons	1	Temp	Pumping Rat	ORP	gal/min DO	Turbidity		/
Time	Removed		<u> </u>	> of ±3% or		> of ±10% or	-	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		_
(234	٥	4.69	21.89	0.582	69.5	6.14	1000	39.83	
1244	0.25	6.85	21.54	0.577	83.3	83.2	>(000	39.83	
1254	050	6.88	21.46	0.574	780	5.16	>1000	39.83	
1304	0.75	6.86	21.35	0.571	801	4.87	405	39.83	
1314	1.00	6.86	21.33	0.568	86.0	4.49	92.1	39.83	
			1		I			/	a continued on next sheet?
4. SAMF	PLING DA	ΛTΑ						Geoc	hemical Analyses
Method(s	s): 🖸 Bai	iler, Size:		Bladder Pump tic Pump 🚨 Ine		mp 🖫 4" Sub.	Pump	Ferro	us Iron: mg/L
Motorials		. □ Polveth	vlene Z Sta	intess 🗆 PVC	•	-			
	: Pump/Bailer	□ Dedicat	ed 🗀 Pr	epared Off-Site	Field-Clear	ned 🗆 Dispos		DO:	mg/L
Materials	::Tubing/Rope	Dedicat	ylene □ Pol; ed □ Prepa	ypropylene 🔲 🏾 ared Off-Site 🏾 🖺	Teflon® □ Nyl □ Field-Cleaned	lon ☐ Other: d Disposab	le	Nitrat	e: mg/L
Depth to	Water at Time	e of Samol	ing:		Field Filtered	i? □ Yes 5	ı No	Sulfat	te: mg/L
Sample I	d: <u>/4083</u> -	Sample D	ate: 3.24	6ample 7	_{Гіте:} 14 <i>5</i> ў	# of Contai	ners: 2	Alkali	nity: mg/L
	e Sample Colle		_			# of Contai			
Equipme	nt Blank Colle	cted? 🗆	Yes 🔼 No	ID:		# of Contai	ners:		
5. COMI	MENTS	Had	n K	v(K =	А	19/6			
	-			- :		. زر.			· · · · · · · · · · · · · · · · · · ·
									THE PARTY NAMED IN
Note: Include d	comments such	as well cond	ition, odor, pi	esence of NAPI	L, or other items	s not on the field	data sheet.		



WELL ID: TW-23

							·		Tames discount
3. PUR	GE DATA)	50	T	1	
Time	Cum. Gallons Removed		Temp	Spec. Cond.	ORP > of +10% or	DO > of ±10% or	Turbidity	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		
1324	1.25	6.88	21.41	0.566	88.1	4.41	50.2	39.83	
1334	1.75	6.87	21.30	0.566	91.4	4.42	44.3	39.83	
1344	2.00	6.87	U.3Y	0.565	88.5	4.36	35.2	39.83	/
1354	2.25	6.86	21.20	0.564	86.4	4.37	29.6	39.83	
1404	2.50	6.85	21.15	0.563	86.7	4.34	24.8	39.73	
1414	2.75	6.86	21.13	0.563	82.4	4.32	19.9	39.83	3 -
1424	3.00	6.86	21.13	0.561	83.3	4.29	18,5	39.83	
1434	3.15	6.86	21.19	0.561	81.2	4.28	16.5	39.8	3 .
1444	3.50	6.86	21.28	0.561	79.8		14.7	39.83	
M54	3.75	6.86	21./3	0.561	76.4	4.30	8.89	39.83	
1455	coll	eca	sour	K					
			- 4						
			P T T T T T T T T T T T T T T T T T T T						
			:						***************************************
·			-						
;									
;									
,									
<u> </u>	<u> !</u>			!			·· ···	ļ.	ontinued 200 100 d rhoot?

Purge data continued on next sheet?



WELL ID: TW-24

1. PRO	JECT INF	ORMA	TION						
	Number: 145			nber: 600		Area of Conc	ern:		
	Macares					Personnel:			
	_ocation:A		61					1 70·F	
2. WELI	ΠΔΤΔ		Date Me	easured: 3	2414		30		
	Diameter:3/L	. in.	ches			Galv. Steel		-	orary Well: □Yes □No
	Diameter: 3/ Diameter: 3/					Galv. Steel			
	pth of Well:		ches	,					 Other:
	Static Water:	<u> </u>	•	· / /					Other:
	Product:		feet	•					Other:
	of Water Colum		feet	Well Volume		_ gal	Screened In	nterval (from	GS):
									ft 6-in well = 1.469 gal/ft
	SE DATA			rged: 3·2			536		Equipment Model(s)
Purge M	ethod: 🔲 Ba	iler, Size: _ trifugal Pum	p 🗆 Perista	☐ Bladder Pump Itic Pump ☐ Ine	□ 2" Sub. Pu	ımp □ 4" Sub. □ Other:	Pump	1. 🔼	EU Bladde
	s: Fumb/Bailer	□ Polyeth	nylene 🔏 Sta	ainless PVC	☐ Teflon® □	Other:		2	MP-50
		□ Dedica		repared Off-Site			sable	3.	451-556
Materials	s: Rope Tubin	Dedica	ted DPrep	lypropylene 🔲 bared Off-Site I	☐ Field-Cleane	Disposat	ole		ORT-19CE
Volume	to Purge (minir	mum):	well v	olumes or		gallons			Oslibaria do Civia Civia
Was wel	I purged dry?	☐ Yes	·	Pumping Rat		gal/min	l 	1	Calibrated? ☐ Yes ☐ No
Time	Cum. Gallons Removed	pН	Temp	Spec. Cond.	ORP	DO > of ±10% or	Turbidity	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		
1536	0	6.81	20.86	0.637	54.2	6.11	>1000	39.70	
1546	0.25	6.63	20.48	0.633	86.7	5.94	484	39.40	
1556	0.50	6.66	20.43	0.631	98.0	5.74	Ugo	39.70	
1606	0.75	6.67	20,38	0.628	117.5	5.67	884	31.70	
1616	1.00	6.69	20.16	0.627	124.1	5.46	300	39.70	
•								Purge dat	a continued on next sheet?
4. SAMF	PLING DA	ATA						Geoc	hemical <u>Analyses</u>
Method(s	s): 🔲 Bail	ler, Size: rifugal Pum	Peristel	l Bladder Pump tic Pump □ Inei	☐ 2" Sub. Pu tial Lift Pump	mp 🔲 4" Sub. 🗆 Other:	Pump	Ferro	us Iron: mg/L
Materials	: Pump/Bailer	☐ Polyeth		inless □ PVC epared Off-Site			able	DO:	mg/L
Materials	: (Tubing/Rope	Polyeth	ulene III Poli	ypropylene 🛄 🤇 ared Off-Site 🔏	Feffon® □ Nvi	on DOther	Ja	Nitrat	e: mg/L
Depth to	Water at Time				Field Filtered	d? □ Yes ∕		Sulfat	ie:mg/L
Sample I	Water at Time	Sample D	24 ate: 3·2	<u>ଏ-</u> । ସ Sample T	ime: 1700	# of Contai	α	Alkali	nity: mg/L
	Sample Colle		_			# of Contai	ners:		
	nt Blank Colle					# of Contai	ners:	<u> </u>	
5. COM	MENTS	HA	ch res	11+c =	40.l	ma /L			
						·)	<u> </u>		
			.,						
Note: Include o	comments such a	s well cond	ition, odor, pi	esence of NAPL	., or other items	s not on the field	data sheet.		THE THE THE THE THE THE THE THE THE THE

Signature



WELL ID: TW-24

	Cum. Gallons	pH	nued fron	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed	±0.1 su	:	> of ±3% or	> of ±10% or	> of ±10% or	≤ 10 NTU	Water Level	Comments
1/0/	(gal)	<u> </u>		±10 μS/cm	±20 mV	±0.2 mg/L		245	
626				0.627		5.39	65.8	39.70 39.70	*
1636		6.70	202+	0.626	130.0	5.33			•
646			20.44	0.626	128.7	5.26	14.3	39.70)′
656	2.75	6.72	20.09	0.626	1296	5.34	7.03	39.70	•
700	Calle	A	sampl	e					
			,						
									20\$
	2								
			<u> </u>						
			1	<u> </u>					**************************************
			1						
	•								

7						,			
			<u> </u>						
			1						
			- /-						

Purge data continued on next sheet? $\ \square$



WELL ID: 76.25

1		JECT INF	- 4		nber: (00		Area of Con	cern:	W	
		Macg 1ea		6.			Personnel:_		-/ 1	*3n · 6
L	Project	Location:						·····	Cloudy	N.30.E
2		LDATA				· ·	_Time:			orary Well: Yes
		Diameter: 3		ches	•		s 🛭 Galv. Stee			
		Diameter: 3/0		ches	•		s 🛘 Galv. Stee			
		epth of Well:	2 - /	feet	•					Other:
	-	Static Water:		_	•					Other:
		o Product: of Water Colur		feet			gal		_	GS):
L	Length	or vvaler Colui		icel						t 6-in well = 1.469 gal
3		GE DATA					Time:			Equipment Model
	Purge M	fethod: ☐ Ba	ailer, Size: ntrifugat Pum	p 🗆 Perista	⊅Bladder Pum; litic Pump □ Ind	o 🗀 2" Sub. Fertial Lift Pump	o ☐ Other:	o. Pump	1. _6	ED Blade
		s: Rump/Baile					□ Other: aned □ Dispo		2. N	P-50
	Materials	s: Rope/Tubin					iylon □ Other:_ ed Disposa		3	451-556
								able	4	DRT-15CA
		to Purge (mini			olumes or Pumping Ra		-			Calibrated? Yes
r	1143 116	Cum. Gallons	1	Temp	Spec. Cond.		DO	Turbidity		*
	Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% o ±20 mV	r > of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
******	139	0.0	7.45	2142	0.352	154.8	6.12	826	31.30	
11	49	0.25	7.19	21.26	0.353	218.1	5.59	172	31.30	,
111	59	0.50	7.27	21.49	0.347	235.2	5.50	5/3	31.30'	
	209	0,75	7.25	21.25	0.341	247.3	5.59	24.3	31.361	
17	219	1.00	7.26	21.22	0.337	250.1	5.65	9.19	31.30	
	1220	الوس <	lecq	sampl	ı	1				a continued on next she
4	SAMF	PLING DA		,					Geoc	nemical Analyses
	Method(s): D Bai	iler, Size: trifugal Pump	Peristal	I Bladder Pump tic Pump □ Ine	□ 2" Sub. Pertial Lift Pump	ump 🛄 4" Sub 🔲 Other:	. Pump	Ferro	us Iron: m
	Materials	s: Pump/Bailer	Polyethy	/lene 🔏 Sta	inless D PVC	☐ Teflon® (Other: aned Dispo	sable	DO:	m
	Materials	s: Tubing/Rope					ylon 🗅 Other:_ ed 🗷 Disposa		Nitrat	e:m
, 2	6	Water at Time			ared Off-Site		ed 🙇 Disposa ed? 🗆 Yes ∕		Sulfat	e:m
	Sample I	D:14082	Sample D	ate:3·23	44 Sample	Fime:/22	2 # of Conta	ainers: Z	Alkali	
1		e Sample Colle					# of Conta			
		ent Blank Colle		,			# of Conta	iners:		
5	COM	MENTS	Hach	1620	W: -2	ر ا ه ا	na //		ι	w
٦٠.	JOIVII	AITIAIO	1/000	1000	V/1 - 2	· · · · /	11/4	5(20)	ht pin	k color



WELL ID: 7W-26

1. PRO	IECT INF	ORMA ⁻	TION						
Project N	Number: <u>[45]</u>	096	Task Num	_{ber:} 600		Area of Conc	ern:		,
Client:_	Macgrega	9/				Personnel:			
Project L	ocation: 🔼	1lary,	<u>64</u>			Weather:	clea	~ 55	F
2. WELL	_DATA_		Date Me	easured: 3	.25.14	Time: 🔼	830	Tempo	orary Well: □Yes □No
Casing E	Diameter: 3	/ 4inc	nes	Type: 💋 PV	C □ Stainless	☐ Galv. Steel	☐ Teflon® (Other:	
	Diameter: 3/		hes	Type: 🗗 PV	C 🗆 Stainless	☐ Galv. Steel	☐ Teflon® C	Other:	
Total De	رر pth of Well:(14.78	feet	From: 💋 Top	o of Well Casing	д (тос) 🗆 та	op of Protective	e Casing 🚨 🤇	Other:
Depth to	Static Water:	<u>35.34°</u>	feet	From: 🖊 Top	o of Well Casing	g (TOC) 🗀 To	op of Protective	e Casing 🚨 🤇	Other:
Depth to	Product:	·	feet	From: 🗆 To	p of Well Casing	g (TOC) 🗖 To	op of Protective	e Casing 🛚 🗘	Other:
Length o	f Water Colun	nn:	feet	Well Volume				•	GS):
		and the second of the second o						ell = 0,653 gal/l	t 6-in well = 1.469 gal/ft
	SE DATA			rged: 3 · 2					Equipment Model(s)
Purge M	ethod: 🔲 Ba	ıler, Size: trifugal Pumı	D Perista	⊒ Bladder Pump Itic Pump □ Ine	o □ 2" Sub. Pu ertial Lift Pump	ımp 🛚 4" Sub. Other:	Pump	,	ED Bladde
	Pump Bailer	5 6 . 1 11	ylene 🗗 Sta	inless PVC epared Off-Site	☐ Teflon® ☐	Other:		2. <u>M</u>	P-60
Matariala	s: Rope/(Tubing						sable	3(151-550
		- Dec.		0100 011 0110	_ , , , , , , , , , , , , , , , , , , ,	J 5.000000	ole	4	DRT-15CE
	o Purge (mini								Calibrated? ✓ Yes □ No
Was wel	l purged dry?	☐ Yes	Temp	Pumping Rat Spec. Cond.		gal/min DO	Turbidity		34.00.72.100.210
Time	Cum. Gallons Removed		<u> </u>	<u> </u>		> of ±10% or	-	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		
0844	<i>O</i> (6.73	17.70	0.346	172.1	5.86	644	35.45	
0854	0.25	7.48	18.82	0.326	94.2	5.62	247	35.47	
0904	0.50	7.53	19.21	0.306	86.0	5.68	52.1	35.4	7'
2914	0.75	7.50	19.03	P.301	86.2	5.48	7.59	35.47	/
2974	1.00	习.52	19.12	0.299	82.1	5.51	4.01	36.4	7
0925	(0	164	560	de				Purge dat	a continued on next sheet?
4. SAMF	LING DA	ATA	_	<i>y</i>				√ Geoc	hemical Analyses
Method(s		ler, Size: rifugal Pump	□ Peristal	rBladder Pump tic Pump □ Ine	2" Sub. Purtial Lift Pump	mp □ 4" Sub. □ Other:	Pump	Ferro	us Iron: mg/L
Materials	::Rump/Bailer	☐ Polyethy	/lene Ø∕Sta	inless © PVC epared Off-Site	☐ Teflon® ☐	l Other:	able	DO:	mg/L
Materials	i: Uning/Rope							Nitrat	e: mg/L
	-							Sulfat	e:mg/L
Sample I	Water at Time D: <u>I4084</u>	7W-26 Sample D	ate: 3 · 25	.19 Sample T	ime: 0925	# of Contai	ners: 2	Alkali	nity: mg/L
	Sample Colle		_			 # of Contai			
	nt Blank Colle		<i>.</i>			# of Contai	ners:		
5. COM	MENTS	Hach	resu	H5 = 1	(0.) M	alL	٦١٩	1K (63	lor
						ر	1		
Note: Include d	comments such a	as well condi	ition, odor, pi	resence of NAPI	L, or other item:	s not on the field	data sheet.		

Signature



FORM GW-2 (Rev 051812 - sej)

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: <u>Tω-27</u>

1 PRO	JECT INF	ORMA	TION						
	Number: 145			hor 600		Area of Conc	orn:		
1	MGCG(e4.)		. rask Null			Personnel:	_		
	ocation:		. 6A		·	Weather: <u>ح</u>		N JUF	
		11000-7		. 3				-	
2. WELI	a.	.,	_			Time:			orary Welf: ≁dYes □No
_	Diameter: 3/		ches			Galv. Steel			
Screen I	القى Diameter:	<u>イ</u> / ユ2	ches			Galv. Steel			
	pth of Well: \underline{w}		_feet		,	. ,	•	-	Other:
	Static Water:			•					Other:
1	Product:	6.7	_feet		20				Other:
Length o	of Water Colum	nn: <u> </u>	_feet	Well Volume Note: 1-in well		gal <i>2-in well = 0.16</i> :			GS): ft 6-in well = 1.469 gal/ft
3. PURO	GE DATA		Date Pu	irged: 3 · 7	6.14	Time:	<u>600</u>	er timet arterio en el terro ancio ar de la contanual no altra de la contanual no altra del es un	Equipment Model(s)
Purge M	ethod: ☐ Ba	niler, Size: trifugal Pum	i no □ Perista	⊒ Bladder Pump ultic Pump □ Ine	o 💷 2" Sub. Puertial Lift Pump	ımp □ 4" Sub. □ Other:	Pump	1	ED Bladde
	s: Rumb/Bailer	_ □ Polyeth	nylene 🗷 Sta	ainless D PVC	□ Teflon® □	Other:	_	2. _ /	NP-50
	/	U Dedica		repared Off-Site	,	ned Dispos	sable	3.	151-556
Materials	s: Rope)Tubing	g □ Dedica	ited Deren	pared Off-Site	☐ Field-Cleane	Disposal	ole	4	DR 7-15CE
Volume	to Purge (mini	mum): <u> </u>) well v	volumes or	1.19	gallons			
Was wel	l purged dry?	☐ Yes		Pumping Rat		gal/min			Calibrated? ☐ Yes ☐ No
Time	Cum. Gallons Removed	pН	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
Time	(gal)	±0.1 su	±2°C	201 ±3% or ±10 µS/cm	20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Oonments
1008	0	7.55	18.37	0.409	270.5	7.41	>1000	36.61	/
1018	0.25	7.36	19.41	0.394	58.4	6.27	405	36.61	
1028	0.60	7.33	18.99	0.382	60.6	5.89	65.0	36.61	•
1038	0.75	7.25	18.31	0.378	69.0	5.93	24.5	36.61	
1048	1.00	7.29	18.13	0.377	70.2	5.98	21.3	3661	
								Purge dat	a continued on next sheet? 🛥
4. SAMF	PLING DA	ΛTΑ	_	_				Geoc	hemical Analyses
Method(s		ler, Size: rifugal Pum		Bladder Pump tic Pump 🚨 Ine	☐ 2" Sub. Pu rtial Lift Pump	mp □ 4" Sub. □ Other:	Pump	Ferro	s Iron: mg/L
Materials	Pump/Bailer	□ Polyeth	ylene 🗹 Sta ed 🔲 Pr	inless □ PVC epared Off-Site	☐ Teflon® ☐	l Other: ned □ Dispos	able	DO:	mg/L
Materials	s: Tubing/Rope	Polyeth		-		-	<u></u>	Nitrat	e:mg/L
Depth to	Water at Time	e of Sampl	ing:		Field Filtered	i? □ Yes 』		Sulfat	te: mg/L
Sample f	D)4084-1	ル・2チ Sample D	ate 3.25	9 Sample	_{Fime:} [] 10	_ # of Contai	_	Alkali	nity: mg/L
Duplicate	Sample Colle	ected?□	Yes 🖒 No	D:		# of Contai	ners:	<u></u>	\
Equipme	nt Blank Colle	cted? □	Yes Z No	D:		# of Contai	ners:		
5. COM	MENTS	Hac	h rec	ulde s	01	ma //	_		
						٠ ٣٠ -			1
Note: Include (comments such a	as well cond	ition, odor, p	resence of NAP	L, or other items	not on the field	data sheet.		



WELL ID: TW- 27

3. PUR	GE DATA	(contin	ued fror	n page _	()				
	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su		±10 uS/cm	±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
058	1.25	7.34	18.55	0.375	70.0	5.93 5.95	14.1	36.61	
108	1.60	7.30	18.34	0.374	73.1	5.95	7.94	36.61	Market
1110	colle	ec4.	sample						
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					-				· · · · · · · · · · · · · · · · · · ·
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	Table of the state								
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			1						
	<u> </u>								

Purge data continued on next sheet? □

Signature



4 DDO ISOT INSORMATION											
	1. PROJECT INFORMATION Project Number: 45094 Task Number: 600 Area of Concern:										
· -			Task Num	ber: 600		Area of Conc	_			—	
	MGC 9 rec	• •	GA			Personnel:	Bs	2 <	٠٠,		
		Isany				Weather:		~ 73			
2. WELI	^		Date Me	easured: <u>3</u>	-25.14	Time:	<u>,05</u>	Tempo	orary Well: 🗆 Yes 🗅	No	
	Diameter: 3 (ches	Type: 🔼 PV	C 🗆 Stainless	Galv. Steel	☐ Teflon® (Other:			
	Diameter: 3/		ches	Type: 7/PV	C 🔲 Stainless	Galv. Steel	☐ Teflon® [Other:	binarin erri		
	pth of Well:			From: To	p of Well Casin	g (TOC) 🗀 To	op of Protective	e Casing 🚨 C	Other:	-	
Depth to	Depth to Static Water: 37.32 feet From: 🗹 Top of Well Casing (TOC) 🗆 Top of Protective Casing 🗅 Other:										
Depth to	Depth to Product:feet From: Depth to Product:										
Length o	f Water Colun	nn: <u>3.1</u>	feet	Well Volume	0.79			•	GS):		
						······································		eli = 0.653 gal/fi	t 6-in well = 1.469 gal		
	E DATA					Time: 1			Equipment Model	_	
Purge M	ethod: Cen					ımp 🖫 4" Sub. 🗅 Other:	rump		ED Blade	<u>te</u>	
Materials	Pump/Bailer	. □ Polyeth □ Dedica	ylene 🔏 Sta ted 🔲 Pi	inless DPVC	☐ Teflon® ☐	☐ Other: ined ☐ Dispos	sable	•	P- 50		
Materials	s: Rope/(Tubing			-	-			3. - 7 .	11-556		
		,,,			/4/1		ole	4. D	RT-154		
	to Purge (mini	mum): Yes							Calibrated?	⊒ No	
vvas wei	I purged dry? Cum. Gallons	pH	Temp	Spec. Cond.	te:	gai/min	Turbidity				
Time	Removed	 	<u> </u>	<u> </u>		> of ±10% or	≤ 10 NTU	Water Level	Comments		
	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L					
1611	0	6.99	25.53	0.595	17.3	5.10	432	37.75			
1621	0.25	6.91	25.44	0.560	40.4	4.81	56.1	37.75			
1631	0.50	687	25.24	0.553	55.1	4.73	879	31.75			
11.41	0.35	100	74 87	0 548	82)	V 47	560	32.75	. 7		
14 ()		1 82	2470	0.010	001	11/12	2.00	2220			
100/	0 1.00	6.82	24.47	0.545	88.5	4.68	2.09	24.75			
1655	COLLEGA		you						a continued on next she	et?	
	PLING DA	NIA ler, Size:		Riadder Rumn	The Public Du	mp 🗆 4" Sub.	Dump	Geoch	nemical Analyses		
Method(s	s): Cent	rifugal Pumj	Peristal	tic Pump 🚨 Ine	rtial Lift Pump	Other:	————	Ferro	us Iron: m	ıg/L	
Materials	Pump/Bailer	☐ Polyeth	ylene ⊅ Sta ed □ Pr	inless DPVC epared Off-Site	☐ Teflon® ☐ ☐ ☐ Field-Clear	l Other: ned □ Dispos	able	DO:	m	g/L	
Materials	:Tubjrlg/Rope	∠ Polyeth	viene 🗆 Pol	aropylene 🗆	- Teflon® □ Nyi	lon Other:		Nitrate	e:n	ng/L	
		□ Dedicat	еа ш Ргера	ared Off-Site	1 Field-Cleaner	g F anisbosan		Sulfat	e: m	ng/L	
Depth to	14384 TW-28 2 20 14										
Sample ID: 100 1 Sample Date: 5 25 19 Sample Time: 6 Ontainers: Alkalinity: mg/L Duplicate Sample Collected? Yes 6 No ID: # of Containers: # of Containers:											
	nt Blank Colle					# of Contai		— <u> </u>			
						5, 50,12					
5. COM	VENTS	_Hac	h resi	71 1 77 =	- 60.1	mg 12					
					***************************************					MANAGEM CARRIED AS ASS	
Note: Include /	comments such :	as well cond	lition, adar a	esence of NAP	L or other item	s not on the field	data sheet				
lote: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.											



WELL ID: 7 W-29

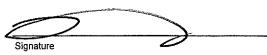
1 PRO.	JECT INF	ORMA	TION		•		ů.				
	Number: 1450			her 600		Area of Conc	ern.				
_	MGCGrage		, aon main			Personnel:	_				
	ocation:		GA			→ Weather:		~ 60 F	•		
2. WELL				ocured: 2	26. IV	Time: 09					
	₹,	'c/ inc		_		Galv. Steel		•	orary Well; 미	∕es □No	
_	-		hes hes			Galv. Steel					
Screen L	Diameter: <u>3/4</u> pth of Well: <u>5</u>	970		,		g (TOC) 🗀 To					
			_	ſ		g (TOC)		-			
	Depth to Static Water:feet										
Length of Water Column: 20.4 feet Well Volume: 0. 81 gal Screened Interval (from GS):											
Lenguro	i vvalci Coluii	····	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ga. 2-in well = 0.163					
3. PURC	SE DATA		Date Pu	rged: 3- :	26.14	Time: <u><i>09</i></u>	26		Equipment	Model(s)	
Purge M	ethod: 🗀 Ba	iler, Size: trifugal Pum	n □ Perista	Bladder Pump	D 2" Sub. Pu	ımp 🚨 4" Sub.	Pump	1. <u>_</u>	ED Blac	NE	
	s: Pump/Bailer	□ Polyeth	ylene 🗷 Sta	inless 🗆 PVC	☐ Teflon® C	Other:		2. 	19-50		
	<i> ر</i>	nedica			•	ned Dispos		3	151-569	4	
	: Rope/Tabing			ared Off-Site	☐ Field-Cleane	lon ☐ Other:_ d ☐ Disposat	ole		ORT-15	_	
Volume t	o Purge (mini	mum):) well v	olumes or	<u> </u>	gallons					
Was wel	purged dry?	☐ Yes	1	Pumping Rat		gal/min		· · · · · · · · · · · · · · · · · · ·	Calibrated? 5	a yes 🗆 No	
Time	Cum. Gallons Removed	pH	Temp	Spec. Cond.	ORP	DO > of ±10% or	Turbidity	Water Level	Com	ments	
1	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU				
0926	0.0	6.84	18.86	0.575	194.3	7.94	948		beorge	SK414	
0934	0.25	6.92	19.20	0.564	187.2	7.48	146		has iese	wate (nete	
0946	0.50	6.92	19.45	0.563	177.6	7.41	40.7		fu	gauging	
0956	0.75	6.92	19.52	0.564	169.7	7.58	3/.6			_	
1006	1.00	6.89	19.54	0.565	164.1	7.50	35.1				
				<u> </u>				Purge dat	ta continued on	next sheet?	
4. SAMF	LING DA	ATA		,				Geoc	hemical Analy	<u>rses</u>	
Method(s		ler, Size: rifugal Pump	☐ Peristal	Bladder Pump tic Pump ☐ Ine	☐ 2" Sub. Purtial Lift Pump	mp □ 4" Sub. □ Other:	Pump	Ferro	us Iron:	mg/L	
Materials	: Pump Bailer	☐ Polyethy		inless PVC epared Off-Site			ablo	DO:		mg/L	
Materials	: Tubing/Repe	Polveth	vlene 🗆 Pol	rpropylene 🗀 -	∕ Teflon® 🗆 Nvl	on 🗆 Other:		Nitrat	e:	mg/L	
	()	☐ Dedicate	ed UPrepa	ared Off-Site (⊒ Field-Cleane	Disposab		Sulfa	fe:	mg/L	
Depth to	Water at Time	or Sample	ng. 3.7. 6	.14 Sample 7	rieiu riitered Time: 100	d? □ Yes t #of Contai	2				
Sample ID: 14085 - Sample Date: 3.26.14 Sample Time: 1100 # of Containers: 2 Alkalinity: mg/L Duplicate Sample Collected? Yes 1 No ID: # of Containers:											
•	nt Blank Colle		(# of Contai		<u> </u>			
		77 7						<u> </u>			
5. COM	VIENTS	ttach	resu	146 = 6	0. ma	1/4			·····		
			· /					andersado com esta que por comen desenvente de esta esta esta esta esta esta esta est			
Note: Include d	comments such a	s well cond	ition, odor, pr	esence of NAPI	L, or other items	s not on the field	data sheet.				



WELL ID: TW- 29

3. PUR	GE DATA	(contir	ued fror	n page/)				
	Cum. Gallons	1	Temp	Spec. Cond.	ORP	DO	Turbidity	120/2422/	6
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1016	1.25	6.81			131.5		30.8		
1026	1.55	6.86	18:36	0,566	1653	7.45	23.4		
1036	8.1.75	6.81	18:27	0.51.18	156.9	7.41	16.6		
1046	1.90	6.80	18.09	0.568	124.4	7.40	15.4		
1056				0.569	103.5	7.35	9.23		
1100	collec	+	sampl						
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								4	
	1								

Purge data continued on next sheet?





1	DDA	JECT INF	ODMA	TION						
		Number: 145			ber: 600		Area of Conc	ern:		
		Macgreg.		, I ASK INUIT	bei. <u> </u>		Personnel:	7		
i		ocation:	Alban	4, 6A			Weather:		(Wind	- 65 F
2	WELL	DATA		Date Me	asured: 3	-25.14		77.0		Mall (DV- DV-
		Diameter: 30	'/ in	ches			☐ Galv. Steel	☐ Teflon®	•	orary Well: □Yes □No
		Diameter: 3/	r/	ches			☐ Galv. Steel			
		pth of Well:	12 10	feet	From: 🗘 To	p of Well Casing	т 🗀 (тос)	op of Protectiv	/e Casing □ (Other:
		Static Water:		_ _feet	From: 5 To	p of Well Casing	TOC) II T	op of Protectiv	e Casing 🗀 (Other:
		Product:	<u> </u>	_feet		p of Well Casin	g (TOC) 🖽 T	op of Protectiv	/e Casing □	Other:
ı	_ength o	f Water Colum	_{nn:} <u>/ 2. /</u>	_feet	Well Volume		_ gal		nterval (from	,
•					and the second second second second second				/ell = 0.653 gal/i	ft 6-in well = 1.469 gal/ft
			iler Size	Date Pu	· —	25-14	Time: <u>\ 2</u> ımp			Equipment Model(s)
F	Purge M	ethod: G Ba							1. <u>M/</u>	-60
P	viaterials	Pump/Bailer	□ Polyeth □ Dedica	nylene Zi Sta ited 🔲 Pr	inless 🖸 PVC epared Off-Site	☐ Teflon® ☐ Field-Clea	I Other: ned □ Dispo:	sable .	2.	ED Bladle
١	√aterials	: Rope/Tubing	Polyeti	nylene 🚨 Pol	ypropylene 🛭	Teflon® □ Ny □ Field-Cleane	lon Dother:	ole	3 /	31-354
١	/olume t	o Purge (mini					gallons 5 X	= 2,4	5 4. <u> </u>) P7-15CF
		purged dry?	☐ Yes	_	Pumping Ra		gal/min			Calibrated? ✓ Yes □ No
,	ime	Cum. Gallons Removed	pН	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
'	iirie	(gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	vvaler Lever	Confinents
/2	13	0	7.47	22.84	0.398	3.9	6.30	709	31.22	
12:	33	0.25	7.27	22.98	0.380	224	5.94	209	31.23	
12	43	0.50	7.30	22.86	0.369	28.0	5.87	98.5	31.23	
12	53	0.75	7.31	22.72	0.359	37.4	5.79	64.)	31.23	
13.	03	1.00	734	22.61	0.354	41.6	5.76	60.3	31.23	
			<u>'</u>						Purge dat	a continued on next sheet? 4
4. \$	SAMF	LING DA							Geoc	hemical Analyses
N	/lethod(s	i):					mp □ 4" Sub. □ Other:	Pump	Ferro	us Iron: mg/L
N	/laterials	:(Pump/Bailer	☐ Polyeth	ylene 12 Stai ed □ Pre	nless D PVC	☐ Teflon® ☐ Field-Clear	Other: ned Dispos	able	DO	mg/L
N	/laterials	: Tubing/Rope					on □ Other: I □ Disposab		Nitrat	e.\ mg/L
г	enth to	Water at Time			irea On-Site (l? □ Yes		Sulfat	e:mg/L
5	Sample I	D.14084-T	W・30 Sample D	ate:3-25	19 Sample	rime: 1439	# of Contai	1	Alkali	nity: mg/L
Duplicate Sample Collected? ☐ Yes ☑ No ID: # of Containers:										
Equipment Blank Collected? □ Yes 💋 No ID: # of Containers:										
5. (5. COMMENTS Hack resulfs = co.1 mg/L, slight Dink									
		col			eren - Erene vezefen ia minerale.	V. V. ANDRON V. V. V. V. V. V. V. V. V. V. V. V. V.				
				F22						
vote:	include d	comments such a	as well cond	ition, odor, pr	esence of NAP	L, or otner items	пот on the field	data sheet.		



WELL ID: TW-30

3. PUR	GE DATA	(contin	nued fron	n page _ ı)				
	Cum. Gallons	1	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1313	1,50		!	0 .360	45.3	i	51.2	31.23	
1323		- 		0.344			47.8	31.23	
1333	;	1	1	0.346	E '	5.67	30,2	3123	
<u>1343</u>				0.346	***************************************		133	31.23	porgal
1353	I	i -		0.342		5.68			5 well
1403			 	0.340			32.1	3/.23	volumer
1413		 		0.339			14.4	31.23	
<u> 1923 </u>	3.75			0.338		5.62	19.9	31.23	
<u>1433 </u>			1	0.337	66.0	5.67	8.79	31.23	•
1435	(oll	بر	sample	<u> </u>		,			
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Purge data continued on next sheet?



WELL ID: Tw-16

1. PRO	JECT INF	ORMA	TION	**						
	Number:			her		Area of Conc	em.			
	мевтер					Personnel: 1		8	sta o	
	_ocation:					Weather:		1 ~ 8:	S'F	
2. WELI	DATA		Date Me		- Control of the Cont	Time:	7.4	-	prary Welk DYee Tho	
Casing I	Diameter: <u>3</u>	<u>4</u> _inc	ches	Type: 💋 PV	C Stainless	Galv. Steel		·	Chr ACADIMINA - Market	
	Diameter: 3/9		hes	Type: 📭V	C 🗆 Stainless	Galv. Steel	☐ Teflon® I	□ Other:		
Total Depth of Well: 45.15 feet From: 19Top of Well Casing (TOC) Top of Protective Casing Other:										
Depth to Static Water: 28.36 feet From: Depth										
Depth to Product:feet From: Group of Well Casing (TOC) Top of Protective Casing Other:										
Length o	of Water Colun	nn:	feet):				GS):	
2 DUD	DATA	_	D.I. D	-	2 14 7			'өн = 0.667 дакт	t 6-in well = 1.469 gal/ft	
3. PURC	BE DATA			rged: 6 2		Time: ump	Pump	1 04	Equipment Model(s) Bladdor	
ľ		D Dobusth				Other:			1-50	
	s: Pump/Bailer	□ Dedica	ted 🚡 🚨 Pi	repared Off-Site	Field-Clea	ned 🚨 Dispos	sable	2. <u>V</u>	u-566	
Materials	s: Rope/Tubino	Polyeth Dedica	ylene □ Po ted □ Prep	lypropylene 🚨 pared Off-Site	Teflon® □ Ny □ Field-Cleane	rlon ☐ Other:_ d ☑ Disposal	ole	3. <u>/</u> 2	17 161E	
Volume	to Purge (mini								FT-15CE	
Was wel	I purged dry?	☐ Yes	□ No	Pumping Ra	te:	gal/min			Calibrated? ☐ Yes ☐ No	
Time	Cum. Gallons	pН	Temp	Spec. Cond.	-	DO	Turbidity		0	
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments	
1640	0.20	7.11	23.80	0.4//	132.9	6.25	205	35.70)′	
1650	0.40	7.16	23.60	0.409	1303	5.96	114	35.73		
1700	0.60	7.21	23.99	0.408	125.9	5.53	73.1	35.73	,	
1710	0.80	7.26	24.51	0.409	122.2	5.41	497.	36.50		
1720	1.00	7.21	24.34	0.413	/23.)	5.34	15.2	36.80)	
					200			Purge data	continued on next sheet?	
4. SAMF	PLING DA	TA		_				Geoch	emical Analyses	
Method(s	s): 📮 Bai	ler, Size: rifugal Pump	☐ Peristal	Bladder Pump tic Pump □ Ine	☐ 2" Sub. Pu rtial Lift Pump	mp 🔲 4" Sub. iiii Other:	Pump	Ferrou	ıs Iron: mg/L	
Materials	: Pump/Bailer		_			l Other:ned □ Dispos		DO:	mg/L	
Materials	: Tubing/Rops							Nitrate	o:mg/L	
	Water at Time					Disposab		Sulfate	mg/L	
Sample I	DH153-T	Sample D	ate: 6.7 ·	4 Sample	ime [135	# of Contai	ners: 2	Alkalin		
Sample ID 4153-7 Sample Date: 6-2-14 Sample Time 1735 # of Containers: Alkalinity: mg/L Duplicate Sample Collected? Yes No ID: # of Containers:										
	nt Blank Colle									
5. COM	MENTS								1	
		-				_				
			,			·				
Note: Include d	comments such a	as well cond	ition, odor, pi	resence of NAP	L, or other items	s not on the field	data sheet.		<u> </u>	

Signature



WELL ID: TW-16

3. PUR	GE DATA	(contin	ued fron	n page)				
	Cum. Gallons	рН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	
1730	1.20	7.20		0.415	122.9	5.35	4.67.	36.80	
1735	colles	7 squ	uple	3000					
	198								
		***						,	·
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Purge data continued on next sheet?

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

1. PROJECT INFORMATION											
Project N	Number:		Task Num	ber:		Area of Conc	ern:				
·	rec6rega					Personnel:	_				
	ocation:					Weather:		. 45°F			
2. WELI	DATA		Date Me						orary Well: Yes □No		
Casing [Diameter: 3	5/4 inc	ches	_		Galv. Steel			•		
	Diameter:	```	ches	Type: PVC	C Stainless	Galv. Steel	☐ Teflon® (Other:			
Total De	pth of Well:	5.15	_feet	From: To	of Well Casin	g (TOC) 🗖 To	op of Protectiv	e Casing 🚨 O	Other:		
Depth to	Static Water	3.11	feet					-	Other:		
	Depth to Product: feet										
Length o	f Water Colum	יוווויייייייייייייייייייייייייייייייייי	feet	Well Volume					GS): t 6-in well = 1.469 gal/ft		
3 PURC	SE DATA		Date Pu			Time: 12		cii - 0.000 gairi	Equipment Model(s)		
Purge M	🖸 Ba	iler, Size: _	J.	Bladder Pump	2" Sub. Pt	ımp □4"Sub.	Pump	1 0	ED Bladde		
	u Cem	D Debash		ltic Pump □ Ine inless □ PVC		Other:			31-556		
Materials	s: Pump/Bailer	☐ Dedica	ited DPi	repared Off-Site	Field-Clea	ned Dispos	sable		RT-15CE		
	s: Rope/Tubing	⁷ ☐ Dedica	ted 🗅 Prep		☐ Field-Cleane	d Disposat	ole		liner Ho		
Volume	to Pur <mark>ge</mark> (minir	mum): <u> </u>	well v	olumes or 👤	.41	gallons					
Was wel	l purged dry?	1	No No	Pumping Rat				1	Calibrated? ✓ Yes ☐ No		
Time	Cum. Gallons Removed	pН	Temp	Spec. Cond.		DO > of ±10% or	Turbidity	Water Level	Comments		
_	(gal)	±0.1 su	±2°C	±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU				
1309	0.20	6.71	29.46	0.597	69.5	4.09	885	33.80	470		
1319	0.40	6.75	28-79	0.570	70.5	4.20	202	33.80			
1329	0.60	6.79	29.01	0.555	74.5	4.23	63.1	33.8			
1339	0.80	6.81	28.85	0.546	81.1	4.23	15.2	33.50			
1347	10 (.00	1.79	28.61	0542	86.0	4.27	660	33.80			
•	2 WW W		4			• •	197	Purge data	a continued on next sheet?		
4. SAMF	PLING DA	TA						Geoch	nemical Analyses		
Method(s	s): 🛄 Bail	ler, Size: rifugal Pum	p ☐ Peristal	⊮Bladder Pump tic Pump □ Ine	☐ 2" Sub. Purtial Lift Pump	mp 🚨 4" Sub.	Pump	errou	us Iron: mg/L		
Materials	: Pump/Bailer	☐ Polyeth☐ Dedicat	ylene Sta	inless PVC	☐ Teflon® ☐	Other:	able	DO.	mg/L		
Materials	: Tubing/Rope	Polveth	vlene □ Pol	voropviene 🗅	Teflon® □ Nv	ion 🗆 Other:		Nitrate	e: mg/L		
		□ Dedicar	ied u Prepa	ared Off-Site (⊒ Fleid-Cleane	d Disposac		Sulfat	e: mg/L		
	Water at Time D: 14155			Y Sample 1	Time: 135	d? □ Yes ↓ # of Contai	7	Alkalir			
Duplicate Sample Collected?□ Yes No ID: # of Containers:											
Equipme	nt Blank Colle	cted? □	Yes 🖊 No	ID:		# of Contai	iners:				
5. COMI	MENTS	Uni	ا بيم	ti c	0.1	100 //	w (s(iq 4t			
	(de/ (hand	16701			""		~7 /			
		- 1									
Note: Include	comments such a	as well cond	lition, odor, p	resence of NAP	L, or other item	s not on the field	l data sheet.				

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 7 W- 32

1. PROJECT INFORMATION										
	-h	Area of Consorre								
Project Number: Task Nur Client:_ Mot Creq		Area of Concern: Personnel: B								
Project Location: Albany Ga		Weather: SUAA	92.F							
			Temporary Well: Affes	□No						
Casing Diameter: 3/4 inches	Type: □/PVC □ Stainless									
Screen Diameter: / inches	Type: PVC Stainless									
Total Depth of Well: 45.27 feet			ve Casing							
Depth to Static Water September From: 1/2 Top of Well Casing (TOC) Top of Protective Casing Other: Depth to Product: feet From: 1/2 Top of Well Casing (TOC) Top of Protective Casing Other: Other: Top of Well Casing (TOC) Top of Protective Casing Other: O										
Depth to Product: feet										
Length of Water Column Veet	Note: 1-in well = 0.041 gal/ft	_ gai	vell = 0.653 gai/ft 6-in well = 1.46	gal/ft						
3. PURGE DATA Date Pu	irged: 6.4.14	Time: 1435	Equipment Mo	odel(s)						
Purge Method: Bailer, Size: Purge Method: Centrifugal Pump Perist			1.QED Bladde	Pump						
Natariala Duna /Duna / Polyethylene S	ainless DPVC DTeflon® D	Other:	2. 451-556							
Dedicated DF	repared Off-Site 🖊 Field-Clea	ned Disposable	3. DRT-15CE							
	pared Oil-Site La Fleid-Cleane	Disposable	4. Soliger Has	•						
Volume to Purge (minimum): well	volumes or <u>(- 40</u>	gallons								
Was well purged dry?	Pumping Rate:		Calibrated? 22 Y	es 🗆 No						
Cum. Gallons pH Temp Time Removed	Spec. Cond. ORP > of ±3% or > of ±10% or	DO Turbidity	Water Level Comme	nts						
(gal) ±0.1 su ±2°C	±10 µS/cm ±20 mV	±0.2 mg/L ≤ 10 NTU	33,1111							
1445 0.26 6.83 25.93	0.516 46.2	3.75 341	3339	10.0 A 70%						
1455 0.40 6.81 2838	0537 62.5	3.87 127	3339							
1509 0.60 684 2830	0.547 71.1	3.77 64.0	33.39'							
1515 0.80 6.83 27.98	0.549 79.0	3.87 30.3	33.391							
1525 1.00 681 27.89	0.551 86.7	3.98 17.1	33.39							
			Purge data continued on nex	t sheet?						
4. SAMPLING DATA			Geochemical Analyse	<u>s</u>						
Method(s): ☐ Bailer, Size: ☐ Centrifugal Pump ☐ Perista	Bladder Pump 🚨 2" Sub. Pu	mp 🔲 4" Sub. Pump	Perrous Iron:	mg/L						
Materials Cump Bailer D Polyethylene St	ainless PVC Teflon® C	Other:	DO:	mg/L						
Materials: Tubing Rope Polyethylene Po	repared Off-Site Field-Clea		Nitrate:							
U Dedicated U Prep	pared Off-Site	d Disposable		mg/L						
Depth to Water at Time of Sampling:	Field Filtered	d? 🗆 Yes 🗷 No	Sulfate:	mg/L						
Sample ID 4155 Sample Date: 6.4.14 Sample Time: 1550 # of Containers: 2 Alkalinity: mg/L										
Duplicate Sample Collected? Yes No ID: # of Containers:										
Equipment Blank Collected? Yes N		# of Containers:								
5. COMMENTS Hack 1460	HE 20.1	+ 11 0	der change							
Note: Include comments such as well condition, odor, p	resence of NAPI or other item	s not on the field data sheet								
. 1010dado dominionio dadir da men domaniori, dddr, p	L, OI OUIGI REIII	o not on the held data sheet.								



WELL ID: 7W - 32

. 1 0 1 1 1	GE DATA								
Time	Cum. Gallons Removed	рН	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
	(gal)	±0.1 su	1 ,	+10 uS/cm	+20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
535	1.20	6.83	28.25	0.553	91.1	3.8/	14.6	33.391 35.391	
545	1.40	6.80	28.07	0.552	97.3	4.10	8.02	35.39'	
550	Coller	som	16						
L Rewa		7							
						-			***********
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- 6									
27.72									a Alexander
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			 						W Valle U
		-							
AND THE									
0-12-0-12-0-0-0					1				4-2-
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					-				
1,100									3,000,000

Purge data continued on next sheet? □

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: <u>TW-33</u>

1. PROJECT INFORMATION											
	Number:			her:		Area of Conce	arn: ML	1-11 000	<u>.</u>		
	MacGreso					Personnel:		7-11 W/E	<u> </u>		
<u> </u>	Location:					Weather:		Sanny			
	742 10	11:34:1									
	L DATA	(asured:					orary Well: ØYes □No		
Ĭ	Diameter:	<u> </u>	hes			☐ Galv. Steel					
i .	Diameter:(10	ches			☐ Galv. Steel					
	Total Depth of Well: 45.03 feet From: 4 Top of Well Casing (TOC) Top of Protective Casing Other:										
Depth to Static Water: 33.65 feet From: A Top of Well Casing (TOC) Top of Protective Casing Other:											
	Depth to Product:feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: Length of Water Column: ☐ 36 feet Well Volume: ☐ 46 gal Screened Interval (from GS):										
Length o	of Water Colum	nn: <u>11,50</u>	feet					iterval (from (ell = 0.653 gal/l	GS): t 6-in well = 1.469 gal/ft		
3 PURC	GE DATA		Date Pu	797.09	Carlotte Comment	Time: 08			Equipment Model(s)		
	lethod: Gar							\	SI		
Į.		C) Deliverth		Marc Pump □ Ine ¶nless □ PVC				·	ner		
Materials	s: Pump/Bailer	☐ Dedica	ted Pr	epared Off-Site	☐ Field-Clea	ned Dispos	sable	2	10 60		
Materials	s: Rope/Tubing	Polyeth Dedica	ylene 🖵 Pol ted 🗀 Prep	ypropylene 🚨 ared Off-Site	Teflon® □ Ny □ Field-Cleane	fon □ Other: d □ Disposat	ole	3	y-x		
Volume	to Purge (mini	mum):	· well v	olumes or <u>S</u>	labelety	gallons		4			
1	Il purged dry?	☐ Yes		Pumping Rat	• • /				Calibrated?		
	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity				
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments		
0805	.01	6.91	25.69	.557	-94.5	1.50	1165	33.71			
0815	,03	6.50	25.68	,SY2	- 1743	2,43	M	33.71	600 swelchol Day		
()875	.05	C(G)	Y 11	.537	-172 2	200	712	37 00	, , , , , , , , , , , , , , , , , , , ,		
acac	2000	C 7C	20.01	(70	19367	276	410	77.10			
00015	36	6.35	72.8	5.56	1032	2.16	311.8	22.82			
0895	,3>	6. 49	75.90	.534	-104.1	3.78	65,5	33.81			
4 0 4 4 4 5	31 IN O D A	T.A.						Purge dat	a continued on next sheet?		
	PLING DA			Bladder Bump	D 2" Cub Du	mp □ 4" Sub.	Dump	Geoc	hemical Analyses		
Method(s): Gent	ler, Size: rifugal Pump	Peristaf	ic Pump 🚨 Ine	rtial Lift Pump	Other:	Pump	Ferro	us Iron: mg/L		
Materials	s: Pump/Bailer	□ Polyeth		filess PVC			able	DO:	mg/L		
Materials	s: Tubing/Rope	1	ylene □ Poly	/propylene 🚨	Teflon® 🗆 Ny	lon 🚨 Other:		Nitrat	e: mg/L		
Depth to	Water at Time		•	On One	Field Filtered	• •		Sulfa	te: mg/L		
Sample		Sample D	C . 1	Sample 1	rime: <u>09</u> շ	# of Contai	, ,	Alkali	nity:mg/L		
Duplicate Sample Collected 2 Yes No ID: 1916 Nur # of Containers:											
· ·	ent Blank Colle	-				# of Contai	ners:				
5. COM	MENITO			m)	اعدا	10 1	<u> </u>			
	WIEIN I O			0.0	<u> </u>	Hach	KIY				
Note: Include	comments such	as well cond	ition, odor, pi	esence of NAP	L, or other item	s not on the field	data sheet.				
								11 (7 1 1		



WELL ID: 1W-33

	GE DATA							1	
Time	Cum. Gallons Removed	pН	.Temp	Spec. Cond. > of ±3% or	ORP	DO > of ±10% or	Turbidity	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		
0855	.(5	6.83	25.78	.534	-64.2	3.47	77.5	33.83	
3905	,85	6.86	3.15	534	-105.1	3.52	58.9	33.85	
0915	1.05	6.92	26.02	,534	-1057	3.87	17.4	33.85	
0925	1,25	6.93	26.54		-105.9		8.68	33.85	
				0925	Sam				
—						· .			
						:			
									1
					4				week day
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1									- 630 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	Herore Make								200 A 200

Purge data continued on next sheet? $\ \square$

Brown AND Caldwell

FORM GW-2 (Rev 051812 - sej)

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: (W-34

Project Number. Task Number. Personnel: S[6]	1. PROJECT INFORMATION	
Project Location: Albany	Project Number: Task Number:	Area of Concern:
Date Date	Client: MarCottgor	
Casing Diameter: Inches Type: GPVC Stainless Galv. Steel Tetlon® Other:	Project Location: Albany, Ga	Weather: SSO SUANI
Casing Diameter: Inches Type: GPVC Stainless Galv. Steel Tetlon® Other:	2. WELL DATA Date Measured: 🖊 🧽 ५-१५	Time: Temporary Well: Yes DNo
Total Depth of Well: \(\frac{1}{2} \) Teet Top of Well Casing (TOC) Top of Protective Casing Other		
Depth to Static Water: \$\frac{32.1}{25.0}\$ feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Tim	Screen Diameter:inches Type: Z PyC 🗅 Stainle	ss Galv. Steel Teflon® Other:
Depth to Static Water: \$\frac{32.1}{25.0}\$ feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Product: feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water Column. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. feet Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Time of Sampling. Depth to Water at Tim	Total Depth of Well:	ing (TOC)
Length of Water Column:		ing (TOC)
Note: -in well = 0.64 galft	Dobail to 1 loddot.	
3. PURGE DATA		· · · · · · · · · · · · · · · · · · ·
Purge Method: Californity Purp Peristaffic Pump 2" Sub. Pump 4" Sub. Pump 1. 1. 1. 1. 1. 1. 1. 1		
Materials: Pump/Bailer		
Materials: Rope/Tubing	· /	E A T
Materials: Rope/Tubing Declicated Decl	Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ 才eflon® ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cle	eaned Disposable
Volume to Purge (minimum):	Materials: Rope/Tubing Polyethylene Polypropylene Teffon® Topicated Prepared Off-Site Pelot-Clear	NYIOH COUNCI.
Was well purged dry?		· • • • • • • • • • • • • • • • • • • •
Time Removed (gal) ±0.1 su ±2°C > of ±3% or > of ±10% or > of ±10% or ±0.2 mg/L ≤ 10 NTU Water Level Comments		Calibrated 2 D Van D No
(gal)	34 34	
O30 I5 O31 O3 O5 O405 O40 O405 O4	+0.1 su +2°C > 0.110%	01 2 01 ±10 % 01 ≤ 10 NTU
Document Document	TOIS .01 6.86 76.69 .604 -101.4	3.48 477 33.57
OYO 30 6.65 36.09 6.95 6.90 6.95 6.90 6.	1030 15 (34 76 03 605 -960	285 339 3261
Costanting Polyethylene Stainless Pvc Teffon® Other Dedicated Prepared Off-Site Field-Cleaned Disposable Depth to Water at Time of Sample Date: Sample Time: Sample Time: Time of Containers: Equipment Blank Collected? Yes No ID: # of Containers: Factor	77 77 77 77 77 77 77 77 77 77 77 77 77	7 5 9 55 1 23 70
Purge data continued on next sheet? 4. SAMPLING DATA Method(s): Bailer, Size: Bladder Pump 2" Sub. Pump 0ther: Materials: Pump/Bailer Polyethylene Stainless PVC Toffon® Other: Dedicated Prepared Off-Site Field-Cleaned Disposable Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: Depth to Water at Time of Sampling: Field Field-Cleaned Disposable Duplicate Sample Collected? Yes No ID: # of Containers: Equipment Blank Collected? Yes No ID: # of Containers: 5. COMMENTS		() 71 75 7 75 67
## Purge data continued on next sheet? ## A. SAMPLING DATA Method(s):		V 01. 11 d5. 01 \$5.85
4. SAMPLING DATA Method(s): Bailer, Size: Phiadder Pump 2" Sub. Pump 4" Sub. Pump Geochemical Analyses	1100 .40 6.83 25.86 .600 7154.2	2.74 16.8 33.83
Method(s): Bailer, Size: Baided Pump 2" Sub. Pump 4" Sub. Pump Peristaffic Pump Inertial Lift Pump Other: mg/L Materials: Pump/Bailer Polyethylene Stainless PvC Teffon® Other: Dedicated Prepared Off-Site Field-Cleaned Disposable Materials: Tubing/Rope Polyethylene Polypropylene Teffon® Nylon Other: Nitrate: mg/L Depth to Water at Time of Sampling: Field Filtered? Yes No Sample ID: Sample Date: Sample Date: Sample Time: Off Containers: More and Sample Date: For Containers: For Containers: More propared Off-Site Sample Date: For Containers: For Container	4 CAMPLING DATA	
Materials: Pump/Bailer Polyethylene Stainless PVC Teffon® Other: DO: mg/L	☐ Railer Size: ☐ Riodder Rumn ☐ 2" Sub I	Purno
Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Office: Depth to Water at Time of Sampling: Sample ID: Yes Alkalinity: Duplicate Sample Collected? Yes No ID: Equipment Blank Collected? Yes No ID: # of Containers: # of Containers: # of Containers: # of Containers: # of Containers: # of Containers: # of Containers: # of Containers:	□ Centrifugal Pump □ Peristatfüc Pump □ Inertial Lift Pum	Ferrous Iron: mg/L
Depth to Water at Time of Sampling: Field Filtered? Yes No Sample ID: Sample Date: Sample Time: Mo f Containers: Alkalinity: Mg/L Duplicate Sample Collected? Yes No ID: # of Containers: # of Co	Dedicated Prepared Off-Site Prepared Off-Site	eaned Disposable
Depth to Water at Time of Sampling: Field Filtered?	Materials: Tubing/Rope	Nylon D Other: Nitrate: mg/L
Sample ID: 41S6 Sample Date: Sample Time: 4 of Containers: Alkalinity: mg/L Duplicate Sample Collected? Yes No ID: # of Containers: 4 of Containers: 5. COMMENTS # of Containers: 4 of Container		0.15-1-1
Equipment Blank Collected? Yes No ID: # of Containers: 5. COMMENTS Hach Kit	Sample ID: 4156 Sample Date: Sample Time:	A ()
5. COMMENTS No hit on Hach Kit	Duplicate Sample Collected? ☐ Yes ☑ No ID:	# of Containers:
	Equipment Blank Collected? Yes No ID:	# of Containers:
	5. COMMENTS No hil G	n Hach Kit
Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.		
Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.		
	Note: Include comments such as well condition, odor, presence of NAPL, or other ite	ams not on the field data sheet.



WELL ID: TW-34

	GE DATA Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C			> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1/19	.90	6.84	25.95	(600	-154,2	2.76	6.96	33.87	
				1110		·			
		,							
***************************************									9,90,44
									///
				:					
	1			,					
-	!								2165
Suite 1						,			
0.3									
									- 1995-1905 W
*	1.					<u> </u>			
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	-								
	-								

Purge data continued on next sheet?

FORM GW-2 (Rev 051812 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: W-35

A STOLES TO BOOK A								_	100 100 100
1. PRO	JECT INF	ORMA [*]	TION						
Project i	Number:					Area of Conc	C4 -		
Client:_	A					Personnel:			
Project	Location:/	barns, b	4			Weather: 9	s" >www	Υ	
2. WELI	L DATA	1	Date Me	asured: 🗸	C-S-14	Time:	M	Tempo	rary Well: • Yes □No
Casing I	Diameter:	inc	hes	Type: Z Py	☐ Stainless	☐ Galv. Steel	☐ Teflon® [Other:	
Screen 1	Diameter:	inc	hes	Type: Z PV	☐ Stainless	☐ Galv. Steel	☐ Teflon® (Other:	
Total De	epth of Well: 4	F0,2	feet	From: 🗘 🗸 o	p of Well Casing	g (TOC) 🗖 To	op of Protective	e Casing 🚨 O	ther:
Depth to	Static Water:	33.79	feet	•					ther:
	Product:		feet						other:
Length o	of Water Colum	ın: <u>∏.78</u>	feet	Well Volume	: .48 = 0.041.50/ft	_ gal	Screened In	nterval (from G	SS): 6-in well = 1.469 gal/ft
2 DUD(SE DATA	10.65	Data Du			Time: ()		eli = 0.033 yairit	
								— <u> </u>	Equipment Model(s)
Purge M	lethod: Dent						F	1.	21
Material	s: Pump/Bailer	. □ Pokyeth □ Dedicar		inless □ PVC epared Off-Site		☐ Other: ned ☐ Dispos	sable	2	R-(c)
Material	s: Rope/Tubing			ypropylene 🛚		rlon □ Øther:_ d ☑ Disposat	ole .	3. []	
Volume	to Purge (mini		•	_ 1				۱۰ ^{4.} —	
	Il purged dry?	☐ Yes		Pumping Rat			vol		Calibrated? ☑ Yes ☐ No
	Cum. Gallons	рН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1205	a (6.10	27.16	.672	-89.3	1.47	665	33.33	
1215	,3	647	76 09	CCY	-113 8	1.67	190	33.48	
1226	(((3	2016	222	-09 >	1 CC	ISI	35 (6	
1792	7	(7)	JC AA	(70	-9C C	104	014	23.34	* 1
1952	17	Oct 1	16.09	610	15.0	1,00	29	33.61	The second second
1245	1,0	19.0	26,44	.674	144.6	1,43	184	53.62	
4 0 4 1 4 1		T.A.							continued on next sheet?
	PLING DA	AIA ler, Size:	П	Bladder Pumn	□ 2" Suh Pu	mp 🚨 4" Sub.	Pump	Geoch	emical Analyses
Method(rifugal Pump	□ Peristali	ic Pump 🔲 Ine	rtial Lift Pump	Other:		Ferrou	Iron: mg/L
Materials	s: Pump/Bailer	☐ Polyethy ☐ Dedicate		nless DPVC epared Off-Site			able	DO:	mg/L
Materials	s: Tubing/Rope	Polyethy Dedicate	ylene □ Poly ed □ Prepa	propylene 🔲	Teflon® □ Nyl □ Field-Cleaned	lon □ Other:_ d □ Disposab	le	Nitrate	e: mg/L
	Water at Time	70	ing:	***	Field Filtered	d? □ Yes □	□ No ⊃	Sulfate	e: mg/L
Sample	10: <u>14156-T</u>	Sample D	ate: 6-5-	Sample 7	Time: \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	# of Contai	ners:	Alkalir	nity: mg/L
· ·	e Sample Colle					# of Contai	ners:		
Equipme	ent Blank Colle	cted? □ `	Yes 🗹 No	ID: _		# of Contai	ners:		
5. COMI	MENTS		No	hit or	n Hac	h Cit			
Note: Include	comments such a	as well cond	ition, odor, pr	esence of NAP	L, or other item:	s not on the field	data sheet.	111	

FORM GW-2 (Rev 051812 - sej)

gnature / Q(G)



WELL ID: 1 W-35

1 010	GE DATA)	50		I I	F.:
Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
255	1.2	6.72	25,61	.630	-155.6	2.00	144	33.62	
305	1.4	6.93	26.74	669	- 22.3	2,75	111	33.62	
315	1.6	6.97	27,00	.669	-122.9	1.71	108	33.62	
325	1.8	7.03	27,04	.669	-123.8	3.55	62	38.62	9
325	1.9	701	27.02	.669	-1223	1.75	71	33.62	
1345	J,0	6,99	77.55	,669	-U.Y.Y	1.82	70	33.69	
355	2.1	7,02	27.28	669	-124.1	1.88	39	33.63	
204	37	7.01	27.51	.669	-123.8	190	70	33.63	BS alls auno us
425	2.3	6.86	26.27	-GG9	-123,0	2,31	757	33.65	
435	2.4	6.92	26.49	.669	-1733	2.33	51	33.63	
495	2.5	6.93	26.17	.669	~124.3	2.24	26.1	33.65	
485	2.6	G.94	26.23	.669	-123,9	2.91	13.4	33.63	
505	2.7	6.94	26.71	.669	-125.3	3.84	19.1	33.63	
S15	1.8	6.93	26,83	1669	-126.1	391	33.1	33.63	
1				156	s Sai	mole			
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1)									
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- 1									

Purge data continue on next sheet?

FORM GW-2 (Rev 051812 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-36

4 000	IFOT INF	00144	TION			-			-			
1	JECT INF					55						
12	Number:		Task Num	ber:		Area of Conc	4					
	lacGregar	. /				Personnel:	75	1 l= A-	67			
Project L	ocation: Al	MAH D	Α			Weather:	414	cloudy	~ 10 }			
	DATA		Date Me	easured: 6	.3.14	Time: A	4	Tempo	orary Well: □Yes □No			
,Casing [Diameter: 30	· inc	hes	Type: 🗗 🗗 🗸	C 🔲 Stainless	Galv. Steel						
. Screen I	Diameter: 3/4	inc	hes	Type: 🗷 🗸	C Stainless	Galv. Steel	☐ Teflon®	Other:				
Total De	pth of Well: $\underline{\mathcal{U}}$	5.15	feet	From: Top	p of Well Casin	g (TOC) 🗖 To	op of Protectiv	/e Gasing □ 0	Other:			
· Depth to	Static Water:	28.86	feet	From: 🖙 o	p of Well Casin	g (TQC) 🗖 To	op of Protectiv	e Casing 🚨 (Other:			
. Depth to	Product:		feet .	•	1 1	g (TOC) 🗖 To	op of Protectiv	ve Casing 🔲 (Other:			
Length of Water Column: 429 feet Well Volume: D. 66 gal Screened Interval (from GS):												
	Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft											
3. PURGE DATA Date Purged: 6:3-14 Time: 0773 Equipment Model(s) Bailer, Size: Bladder Pump 2' Sub. Pump 4' Sub. Pump												
Purge M	ethod: Cent	ııer, sıze: trifugal Pum	p 🔾 Perista	a Biadder Pump Itic Pump □ Ine	o La 2" Sub. Po ertial Lift Pump	ump 🔲 4" Sub. Other:	Pump	1. QE	D Harry			
Materials	s: Cump Bailer	☐ Polyeth☐ Dedica	ylene 🕰 Sta	inless PVC	☐ Teflon® ©	Other:	able	2	11-206			
Materials	s: Rope/Tubin	Polveth	vlene □ Pol	voropvlene 🗆	Teflon® □ N	don □ Other:		зД	27-15CE			
		⁷ □ Dedica	ted 🗅 Prep	ared Off-Site	☐ Field-Cleane	d Disposab	ole	م ک 4.	(1957 F/20			
	to Purge (minir		772			_			Calibrated? Z Yes □ No			
Was wel	l purged dry? Cum. Gallons	☐ Yes	Temp	Pumping Rat		gal/min	Turbidity					
Time	Removed	•	· .	·	· · · · · · · · · · · · · · · · · · ·	> of ±10% or		Water Level	Comments			
1000	(gal)	±0.1 su	±2°C	±10 μS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU					
0833	0.20	6.70	21.15	0.528	154.6	5.41	292	30.25				
0843	0.50	6.79	21.21	0.502	136.1	5.66	53/	30.25	/			
0853	0.75	685	21.34	0.470	126.0	5.13	183	20.26	7			
0903	1.00	6.90	21.44	0.445	119.9	5.25	36.9	30.27	/			
0913	1.25	6.93	21.50	0.428	115.7	5.28	19.4	30.27	,			
								Purge data	a continued on next sheet?			
4. SAMF	PLING DA	TA	127					Geocl	hemical Analyses			
Method(s		ler, Size: rifugal Pump	Peristal	Bladder Pump	☐ 2" Sub. Pu	mp 🚨 4" Sub.	Pump	Ferro	us Iron: mg/L			
Materials	: Rump/Bailer	□ Delveth	/lene ☑Stai	inless D PVC	☐ Teflon® □	Other:		DO:	mg/L			
Materials	:: Tubing/Rope		-		-			Nitrate				
	Water at Time			ared Off-Site [d ∕d Disposab d? □ Yes □		Sulfat				
	AND CHI M	11.1.2	Gete: 6.5.4	Y Sample 7		# of Contain	• •	Alkaliı				
	Sample Colle		_	•		# of Contain			\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \			
· ·	nt Blank Colle					# of Contain						
5. COM	MENTS	Lach	resul	+(=	(0.0	1 6-	}	<u> </u>				
Sow.		Chang		,	=	•	10		-			
Note: Include d	comments such a	as well cond	ition, odor, pı	esence of NAPI	L, or other item	s not on the field	data sheet.					
									/			



WELL ID: TW-36

3. PUR	GE DATA	(contin	ued fror	n page _)				
	Cum, Gallons	pН	Temp	Spec. Cond.	ORP	DO .	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	- Comments
0923	1.5	6.97	21.57	0.415	112.1	5.29	29.1	30.27	
0933	1.75	6.96	21.52		111.5	5.38	12.1	30.29	
0943	2.00				1074	5.39	59.3	30.29	
0953	· -			0.394	105.2	5.19	15.3	30.30	
/003	-	7.05		0.391	105.9	5.23	8.86	30.30	
1005	Colle	4 sa	nole			1	51		
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		• •	.	M •		F		#5 • 235B	
4 5		10 FG	945	•	8	•			- II
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	5.9%								
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								Duran data as	militued on next sheet?

Purge data continued on flext sheet?

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 7W-37

1. PRO	JECT INF	ORMA	TION						-		
	Number:			ber:		Area of Conc	em.				
	mac 6 read						Bs				
		Albery				_	Sarty	cloude	~85.F		
2. WEL	L DATA	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date Me	asured: 6	·3·M	Time:	M	Temp	porary Well:		
Casing	Diameter: 3	14 inc	ches			Galv. Steel					
Screen	Diameter:	inc	ches	Type: PV	C 🗆 Stainless	Galv. Steel	☐ Teflon®	Other:			
Total De	epth of Well: \underline{Y}	5.10	feet	From: To	p of Well Casin	g (TOC) 🗖 T	op of Protectiv	ve Casing □	Other:		
Depth to	Static Water:	29.85	feet	From: 🖊 To	p of Well Casin	g (TOC) 🗖 T	op of Protectiv	re Casing	Other:		
Depth to	Product:		feet	From: 🗆 To	p of Well Casin	g (TOC) 🚨 T	op of Protectia	ve Casing	Other:		
Length of Water Column: Vell Volume: D2 gal Screened Interval (from GS): Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft											
				7 10		2-in well = 0.16	7 gal/ft 4-in w	ell = 0.667 gal	/ft 6-in well = 1.469 gal/ft		
	GE DATA	iles O'-		rged: <u>6.3</u>		Time: 10			Equipment Model(s)		
Purge M	lethod: Gen	iler, Size: _ trifugal Pum	p ☐ Perista	■ Bladder Pump itic Pump 🚨 Ine	o ⊔ 2" Sub. Pu ertial Lift Pump	mp 4" Sub.	Pump	1. <u>0</u>	ED Bladde		
Material	s: Nump Bailer	. □ Polyeth	ylene Sta	inless DPVC	☐ Teflon® ☐	Other:		2. U	7-50		
Material	s: Rope Tubin	Polyeth	vlene 🗆 Pol	vpropvlene 🗆	Teflon® □ N	don ☐ Other:		3. <u> </u>	151-556		
		Dedica	ted 🚨 Prep	ared Off-Site	☐ Field-Cleane	d Disposat	ole	4	17-15CE		
	to Purge (mini	•				gallons			Calibrated? □ 7es □ No		
Was we	Il purged dry?	☐ Yes	Temp	Pumping Ra		gal/min	Turbidity		7 163 2 1 10		
Time	Removed	<u>'</u>	· ·	· -		> of ±10% or		Water Level	Comments		
	(gal)	±0.1 su	±2°C	±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU				
1105	0.20	7.03	23.23	0.508	122.3	4.04	343	29.95	5′		
1115	0.40	724	302	0.476	124.4	4.03	130	29.95			
1125	0.60	7.14	23.04	0.439	122.1	4.26	71.4	29.99			
1136	0.80	7.17	23.12	0.423	121.5	4.33	60.9	29.96			
1145	1.10	7.20	23.43	0.415	119.5	4.40	43.3	29.9	4		
		***** 5:		3 149k			- West-	Purge da	ta continued on next sheet?		
4. SAMF	PLING DA	ATA						Geq	chemical Analyses		
Method(s): 🔲 Bai	ler, Size: rifugal Pump	Peristali	Bladder Pump ic Pump 🔲 Ine	☐ 2" Sub. Purtial Lift Pump	mp 🔲 4" Sub. 🗖 Other:	Pump	Ferro	us Iron: mg/L		
Materials	s: Rump/Bailer	☐ Polyethy	ylene 🗗 Stai	nless 🗖 PVC	☐ Teflon® ☐	Other:		DO:	mg/L		
Matorials	Tubian/Bana	☐ Dedicat		pared Off-Site	,	=		Nitrat			
	s: Tubing/Rope					•			. \		
	Water at Time			nel .	Field Filtered	i? □ Yes □	No /	Sulfa	te: mg/L		
	10/4/54-							Alkali	inity: mg/L		
•	e Sample Colle		•			# of Contai		—-			
⊨quipme	ent Blank Colle	cted? 🗀	Tes Z No	ID:		# of Contai	ners:				
5. COMI	MENTS	Hac	KN	sulf	20.1	ma	1L. N	0 500	so of		
	wol-1-										
Note: Include	comments such a	es well cond	ition oder a	esence of NAD	or other item	not on the field	data sheet				
molade		23 WOH CUITU	mon, odor, pr	OSONOO UI IVAPI	L, Or Other Rems	anut Uni til e 11810	uaia SIIOOI.		$\overline{}$		
									_		



WELL ID: 7w.37

. FURC	E DATA							1	<u> </u>
Time	Cum. Gallons Removed	• pH	Temp	Spec. Cond.	ORP	DO	Turbidity	 Water Level	Commente
THITIE	(gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	water Level	Comments
155	1.30.	7.19	23.16		1194	4.46		29.96	
205	1.50	7.26		0.405	114.6	4.47	20.3	29.96	
215			23.47		16.4	4.49	15.1	29.96	
225	2.00				113.5	4.60	12.9	29.96	, •
135				0317	110.4	4.47	9.27	29.96	
240	colleca	san	gle		-				
		'n		. 0	3				
		-			•				
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			79.7 V	ĝ.					
			3	23 50					
• 89	•		•			•			
				•	28	8			
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				-	3.				
	E: 40°	8	DF (8)	·			,		
							•		
-									

Purge data continued on next sheet?

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-38

4 000	ICOT INC		TION	<u>.</u>					
1	JECT INF							27	
	Number:								
7.4	NA(6 reg e					_		. 40°C	· · · · · · · · · · · · · · · · · · ·
		<u>`</u> _				Weather:			
	L DATA		Date Me			Time:			rary Well: 🗷 es 🗆 No
Casing I	Diameter: <u>5/</u>	<u>7ind</u>	ches	•				Other:	
	Diameter:			/ ,				Other:	
	epth of Well:			<i>'</i> .					ther:
· ·	Static Water	<u> </u>	_feet						ther:
	Product:	12 1	feet 7					-	ther:
Length o	of Water Colum	nn: 3-1	Teet	Well Volume		_ gal 2-in well = 0.16			6S): 6-in well = 1.469 gal/ft
2 DHD	GE DATA		Doto Bu			Time: /0	4 4	c., - 0.000 gash	1
				3 -				- Ox	Equipment Model(s) Braddy Pomp
Purge iv	lethod: Ba		p 🛘 Perista	ltic Pump 🔲 Ine	ertial Lift Pump	Other:	· .	1. <u>Je</u>	· FL/
	s: Pump/Baliler	□ Dedica	ted ☐ P	ainless 🖵 PVC repared Off-Site	Field-Clea	ined 🚨 Dispo	sable	2. <u>/)</u>	1500
Material	s: Rope Tubing	Polyeth	nylene □ Po	lypropylene in ared Off-Site	Teflon® □ Ny □ Field-Cleans	/lon ☐ Other:_ ed ☑ Disposa	hle	3. <u>V/C</u>	7-150
Volume	to Purge (mini		7		1 6/1	gallons		4. <u>34.</u>	1.46k H22
	Il purged dry?	☐ Yes			te:	•			Calibrated?
	Cum. Gallons	pН	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1038	0.20	6.65	24.72	0.427	43.4	3.62	54.8	32.45	7
1018	0.40	6.67	25.14	0.433	25.3	3.73	37.P	32.45	
1058	0.60	664	25.25	0.441	21.5	3.71	29.5	32.45	
1108	0.88	6.63	25.43	0.413	20.4	3.75	305	32.45	5.1
1118	1.00	668	26.19	0.441	18.4	3.77	20.6	32.45	
7,10							<u> </u>	Purge data	continued on next sheet?
4. SAMI	PLING DA	TA		_				Geoch	emical Analyses
Method(ler, Size: rifugal Pumi				ımp □ 4" Sub. □ Other:		Ferrou	s Iron: mg/L
Material	s:(Pump/Bailer	□ Polyeth	ylene 🗷 Sta	inless D PVC	☐ Teflon® ☐	Other:		DO:	mg/L
	s: Tubir)g/Rope	□ Dedica		epared Off-Site			sable	Nitrate	\
Material	s. Jubijg/Rope	☐ Dedicat	ted Prep	ared Off-Site	☐ Field-Cleane	Disposal			
	Water at Time	~ 11 . 20	7 .			d? □ Yes	つ	Sulfate	
Sample				Sample T	•	# of Conta		Alkalir	ity: mg/L
	e Sample Colle					# of Conta		—— <u> </u>	
Equipme	ent Blank Colle	cted? U	Tes LI No	D:		# of Conta	iners:		
5. COM	MENTS	Ha	4 10	ルル	=40.	1 mg/	L. N.	. (0/8	charge
Note: Includ-	comments such	as wall core	lition odor -	resence of MAD	l or other Ha-	e not on the fi-t	d data short		
vote. ITICIUAE	comments such	as well cond	наон, овог, р.	esence of NAP	L, Or Other Item	s not on the held	data sneet.	\sim	7
						_			



WELL ID: Tw.38

	Cum. Gallons	pН	ued fron	Spec. Cond.	ORP	DO	Turbidity		€
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or	100 1/	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1128	1.20	6.61	25.77	0.435	24.4	0.435	7.53	32.45	
1130	Collect	send							
							-		
									<u> </u>
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Purge data continued on next sheet?

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 7w-39

1. PRO	JECT INF	ORMA [®]	TION	-							
Project I	Number:		Task Num	ber:		Area of Conce	ern:				
Client:_/	war Gregar	•				Personnel:	36				
Project I	Location:	bany 61				<u>د د</u> Weather:		86.F			
2. WEL	L DATA	•	Date Me	asured: <u></u>	4.14	Time:	ч -	Tempo	orary Well: ZiYes □No		
Casing I	Diameter: 3/	14 ind	ches	Type: / PV	C	Galv. Steel	☐ Teflon® 〔	Other:			
	Diameter:l		ches	Type: PV	C 🗆 Stainless	Galv. Steel	☐ Teflon® (Other:			
Total De	epth of Well: $\frac{4}{2}$	5.14	feet	From: To	p of Well Casing	g (TOC) 🗖 To	op of Protectiv	e Casing 🚨 C	Other:		
Depth to	Static Water	34.27	_feet	From: 🗗 To	p of Well Casing	g (TOC) 🔲 To	op of Protectiv	e Casing 🔲 C	Other:		
Depth to	Product:	.,	feet	From: 🗅 To	p of Well Casin	g (TOC) 🚨 To	op of Protectiv	e Casing 🔲 🤇	Other:		
Length o	of Water Colum	nn: <u>/0.8</u> 4	eet	Well Volume	0.49			nterval (from (
o BUB	OF DATA	The second			PERSONAL PROPERTY.			eli = 0.653 gai/i	ft 6-in well = 1.469 gal/ft		
	GE DATA								Equipment Model(s)		
Purge M	lethod: D Ba		_						D Bladde Pomp		
	s: Pump/Bailer	□ Dedica	ted 🚨 Pr		Field-Clea	ned 🗆 Dispos	sable		1-554		
Materials: Rope/Tubing Polyethylene □ Polypropylene □ Teffon® □ Nylon □ Other:											
Volume to Purge (minimum): well volumes or gallons											
9	Il purged dry?	☐ Yes		Pumping Ra	te:	gal/min			Calibrated? ∠ZYes □ No		
	Cum. Gallons	рΗ	Temp	Spec. Cond.		DO	Turbidity				
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments		
0828	0.20	7.13	21.74	0322	92.9	4.57	539	34.27) ′		
0838	0.40	7.25	22.56	0.298	80.8	4.98	165	34.27			
0848	0.60	7.27	22.16	0.277	82.4	5.22	51.4	34.27			
0858	0.80	7.28	22.38	0.267	85.9	5-45	30.8	34.27			
0908	1.00	7.38	22.75	0.261	85.3	5.60	128	34.27			
		77.5000			LUCIONES			Purge dat	ta continued on next sheet?		
4. SAMI	PLING DA	TA						Geoc	hemical Analyses		
Method(iler, Size:				imp 🔲 4" Sub. 🖟 Other:		Ferno	us Iron: mg/L		
Material:	s: Pump/Bailer	. D Polyeth	ylene 🗹 Stai	inless 🗆 PVC	☐ Teflon® ☐	Other:		DO:	mg/L		
	s: Tubing/Rope	Dedicar Polyeth	ylene 🗅 Poly	epared Off-Site	Teflon® □ Ny	rion □ Other:		Nitrat	\		
	Water at Time	☐ Dedicat	ted LI Prepa	ared Off-Site	□ Field-Cleane Field Filtere	d A Disposab		Sulfa	te:mg/L		
Sample			ate: 6 · 4 · 1	Sample	Time: 094		7	Alkali			
	e Sample Coli					— # of Contai	ners:				
Equipme	ent Blank Colle	ected? □	Yes 🔁 No	D:		# of Contai	ners:				
5. COM	MENTS	Hach	resu	lts 2	0.1 1	19(L	but s	one s	light color		
									,		
Note: Include	comments such	as well cond	lition, odor, pi	resence of NAP	L, or other item	s not on the field	data sheet.	3			



WELL ID: TW-39

B. PURC	SE DATA	(contin	ued fron	n page)				<u></u>
	Cum. Gallons	pH	Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
0918	1.20	7.35	22.65	0.255	90.1	5.83	39.7	34.27	
1918	1.50	7.37	22.87	0.249	90.1	5.94	17.4	34.27	
0138	1.80	734	22.76	0.248	92.2	6.02	8.61	34.27	
)940	Colles	5000	ph		24				
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Purge data continued on next sheet?

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-40

	100000			W						
1. PRO	1. PROJECT INFORMATION									
(2)	Number:		Task Num	ber:		Area of Conc	ern:			
Client:_	Machrege	9/				Personnel: 83				
Project I	Location:	1 hany	6 <u>k</u>	Co.		Weather: SUANY ~ 90°F				
2. WEL	L DATA		Date Me	asured: 6	3.14	Time: 2/	4	Tempo	orary Well: ☐Yes ☐No	
Casing I	Diameter: 3	<u>/</u>	hes	Type: DAV	C 🗆 Stainless	□ Galv. Steel	☐ Teflon®	Other:		
	Diameter:	12	hes	Type: 🋂 🗝 V	C 🗆 Stainless	□ Galv. Steel	☐ Teflon®	☐ Other:		
	epth of Well: 4		feet		p of Well Casing	• • •	-	ve Casing 🔲 C	Other 1	
	Static Water:		feet		p of Well Casing		op of Protectiv		Other:	
·	Product:	14.65	feet					_	Other:	
Length of Water Column: Well Volume 9.41 gal Screened Interval (from GS): Note: 1-in well = 0.041 gal/ft 2-in well = 0.163 gal/ft 4-in well = 0.653 gal/ft 6-in well = 1.469 gal/ft										
3. PURO	GE DATA		Date Pu	and the state of t		Time: 15	A CONTRACTOR OF THE PARTY OF TH	REAL PROPERTY.	Equipment Model(s)	
Purge M	_					ımp □ 4" Sub. □ Other:		1. G	ED Blackly	
	s Pump/Bailer	☐ Polyeth	vlene 🗷 Sta	inless PVC	☐ Teflon® ☐	Other:		2. 45	1-554	
		Dedical		epared Off-Site ypropylene		ned Dispos	sable	3.	12T-15CE	
Material	s: Rope/Tubing	Dedical	ted 🖸 Prep	ared Off-Site	☐ Field-Cleane	d Disposal	ble	4. Se	olinsh Hoo	
	to Purge (minir	1	, ,	olumes or 1.					Calibrated? □Yes □ No	
Was we	Il purged dry?	☐ Yes	7 No		te:		T. 4:4%	T	Calibrateur Tres II No	
Time	Cum. Gallons Removed	pН	Temp	Spec. Cond.	ORP > of ±10% or	DO > of ±10% or	Turbidity	Water Level	Comments	
	(gal)	±0.1 su	±2°C	±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		.,	
1550	0.20	6.98	23.26	0.495	113.6	5.06	3/.4	323	3	
1600	0.40	7.01	1339	0.481	120.7	5.07	18.5	35.3	3′	
1610	0.60	7.04	23.03	03 0.466	126.8	5.19	17.2	35.39		
1/20	0.80	7.07	23.22	0.447	130.7	5.22	5.85	35.34	,	
1625	collas	SCAL	nol.							
100-1	COIDO		V		N 5 52			Purge dat	a continued on next sheet?	
4. SAMI	PLING DA	TA				1-1		Geocl	hemical Analyses	
Method(s):	ler, Size: rifugal Pump	Peristali	rBladder Pump tic Pump ☐ Ine	☐ 2" Sub. Pu	mp 🚨 4" Sub. 🚨 Other:	Pump	Ferro	lron: mg/L	
Materials	s: Rump Bailer	□ Polyethy	/lene Stai	inless PVC	☐ Teflon® ☐	Other:	able	DO:	mg/L	
Materials	s: Tubing/Rope	□ Dedicate Polyethy	/lene □ Pol	epared Off-Site propylene 🚨	Teflon® □ Nv	ion 🗆 Other:		Nitrate	e: mg/L	
		☐ Dedicate	ed U Prepa	ared Off-Site	☐ Field-Cleane	d Disposat		Sulfat		
Sample	Water at Time	Sample D	ate 6.3.1	4 Sample	Field Filtered 162 _{5 Fime} :	d? □ Yes ↓ # of Contai	<i>-</i>			
	Sample ID: 14154-Tsample Date 6-3-14 Sample Time: 1625 # of Containers: 2 Alkalinity: mg/L Duplicate Sample Collected? Yes No ID: # of Containers:									
Equipment Blank Collected? Yes No ID: # of Containers:										
5. COM	MENTS	He.L	Anc !	k. =	20.1	mall	NO (color	change.	
J. J. J. 1411		TIPOP	Vecni	, , , , , , , , , , , , , , , , , , , 		-91-	0 0		- ongs	
Note: Include	comments such a	as well cond	ition, odor, pi	esence of NAP	L, or other item:	s not on the field	i data sheet.			

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 7W-4/

1. PRO	1. PROJECT INFORMATION								
Project N	Number:		Task Num	ber:		Area of Conce	ern:		
Client:_	harbreger					Personnel:	BL		
Project L	ocation: A	bany	GA			Weather:	UMM	v 60.6	
2. WELI	DATA		Date Me						orary Well: ∕ZIYes □No
	Diameter: 31	f in	ches			☐ Galv. Steel			· ·
	Diameter: 3/4		ches	Type: 7 PV	C 🗆 Stainless	☐ Galv. Steel	☐ Teflon®	☐ Other:	<u>.</u>
	pth of Well:		feet	From: Top	o of Well Casing	g (TOC) 🗀 To	op of Protectiv	ve Casing □ C	Other:
	Static Water	7	Teet	From: 6 Top	o of Well Casing	g (TOC) 🔲 To	op of Protectiv	ve Casing 🚨 C	Other:
·	Depth to Product:feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:								
Length o	Length of Water Column:feet Well Volume: gal Screened Interval (from GS):								
2 DUD	Note: 1-in well = 0.041 gal/ft 2-in well = 0.163 gal/ft 4-in well = 0.653 gal/ft 6-in well = 1.469 gal/ft								
	3. PURGE DATA Date Purged: 6.3-14 Time: 1324 Equipment Model(s) Purge Method: Bailer, Size: 18 Bladder Pump 2" Sub. Pump 4" Sub. Pump 1. 1. 18 Blader Pump 1. 1. 18 Blader Pump 1. 1. 18 Blader Pump 1. 1. 18 Blader Pump 1. 1. 18 Blader Pump 1. 1. 18 Blader Pump 1.								
Purge M	ethod: Cen		_						EN Bladely Ry
Materials	s: Pump Bailer	PolyettDedica		ainless PVC repared Off-Site		I Other: ned □ Dispos	able		1-556
Materials	s: Rope Tubing	Polyett	nylene 🖳 Pol	lypropylene 🔾	Teflon® □ Ny	lon DOther:	<u> </u>	3. <u> </u>	17-15Œ
1	to Purge (mini	/ Li Dedica	ned La Prep	ared On-Site	u rielo-Cleane	d / Disposad	ole	4. <u>S</u> e	tive 420
	l purged dry?		Well v	Pumping Rat					Calibrated?
TTES TICE	Cum. Gallons	pН	Temp	Spec. Cond.	ORP		Turbidity		
Time	Removed (gal)	±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU	Water Level	Comments
1334	0.20	6.97	23.61	0.485	96.0	3.89	422	30.20	,
1344	0.40	7.08	13.5H	0.470	97.7	3.82	112	30.25	- NA
1354	0.60	7.09	23.51	0.461	163.0	3.92.	39.9	30.25	
1404	0.80	7.12	23.42	0.453	104.2	4.16	34.2	30.25	
14/4	1.00	7.13	2372	0.447	103.3	4.25	8.30	30.25	
	·•			do manana and and and and and and and and an				Purge dat	a continued on next sheet?
4. SAMF	PLING DA	ΛTA						Geoc	hemical Analyses
Method(s		ler, Size: rifugal Pum	ير D Peristal □	Bladder Pump tic Pump 🚨 Ine	2" Sub. Pu	mp 🚨 4" Sub.	Pump	Ferro	us Iron: mg/L
Materials	s: Rump/Bailer	Polyeth	ylene Sta	inless 🗆 PVC	□ Teflon® □	Other:		DO:	mg/L
	: Tubing/Rope	La Dedica		epared Off-Site	_	•	able		
Materials	: ubina/Rope	☐ Dedicat	ted DiPrep	ared Off-Site	Field-Cleane	Disposab	le	Nitrat	e:mg/L
Depth to	Water at Time	of Samp	1 -	1.1	Field Filtered	? 🗆 Yes 🎜	No 2	Sulfat	te: mg/L
	Sample ID: 454-Tw-4 Sample Date: 4-3-14 Sample Time: 1425 # of Containers: 2 Alkalinity: mg/L								
Duplicate Sample Collected? Yes \(\text{No} \) No \(\text{ID:} \frac{14154-0+2}{14154-5-2} \) # of Containers: \(\frac{2}{300} \)									
Equipme	Equipment Blank Collected? Yes No ID/1134-EB U # of Containers: 2								
5. COM	MENTS	Hack	י אני	1+r =	10,1	mall	but	slight	colar
	chang	<u> </u>							
Ar-r- b	0								
lote: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.									



WELL ID: TW-41

2 bone Gall De posteria com

		3010	werb	ell propes	rsu(, (a	M			
3. PUR	GE DATA		ued fron)				
Time	Cum. Gallons Removed	pН	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
	(gal)	±0.1 su	±2°C	±10 µS/cm	±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		Comments
1424	1.25 collect	7.18	23.87	0.441	03.2	4.36	9.03	30.26,	
1425	colled	6	ample						
		. • .							
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									or or or or many to prove
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APPLATES FROM THE				Territoria de la constantia de la consta		<u></u>	ı		The second second

Purge data continued on next sheet? □



WELL ID: TW-42

1 DBC	JECT INF	ODMA	TION						
	t Number:			bor		Area of Cone	o-m.		
	Macbreg.		I ask I vuii			Area of Conc Personnel:	B-		
	t Location:		(.)			Weather:	loudy	NEC	5.15
	L DATA				2 4/	400			
									orary Well: Yes 🗆 No
	Diameter: 0.	_	ches	(Galv. Steel Galv. Steel Galv. Steel			
	Depth of Well:					g (TOC) 🗖 T			
1		29 mc	feet	· · · · · · · · · · · · · · · · · · ·					
Depth to Static Water:									
Length of Water Column: 7.95 feet Well Volume: 0.32 gal Screened Interval (from GS):									
Longin	or water colu	1111. <u>7</u>	1001		-			,	ft 6-in well = 1.469 gal/ft
	GE DATA			rged:		Time: 147			Equipment Model(s)
Purge	Method: ☐ Ba	ailer, Size: ntrifugal Pum	p ☐ Perista	Bladder Pump	o 🗓 2" Sub. Pu ertial Lift Pumo	ump 4" Sub.	Pump	1.04	D Bladder
	als: Pump/Baile	_ □ Polyeth	nylene 🗷 Sta	inless PVC	☐ Teflon® □	Other:		2.14	7-50
		□ Dedica		•	_	ned □ Dispo:		з. 🔨	51-556
Materia	als: Rope Tubin	Dedica	ted 🗅 Prep	ared Off-Site	☐ Field-Cleane	Disposal	ole	4. D	IT-BCE
0.	e to Purge (mini		•		-	-	= 1.6	•	Calibrated?
Was w	ell purged dry? Cum. Gallons	□ Yes	Temp	Spec. Cond.	te:	gal/min	Turbidity		Camplated: 2 1es 2 140
Time	Removed	<u> </u>	<u> </u>			> of ±10% or		Water Level	Comments
No.	(gal)	±0.1 su	±2°C	±10 µS/cm	±20 mV	±0.2 mg/L	≤ 10 NTU		
192	0 0	6.81	27:41	0398	172.9	6.1/	392 .	57.51	
436	0.50	6.91	2671	04/7	(28.1	5.00	366	3753	/
1446	0.75	7.00	2610	0.408	120.0	5.00	138	37.5	
1456	0.80	7.02	2574	0.413	117.1	4.93	157	37.64	
1506	100	7.20	27.07	0.414	109.1	461	150	37.50	•
307				-11-1		1.01		Purge dat	ta continued on next sheet? 🔏
4. SAM	IPLING DA	ATA		_	112.5			Geoc	hemical Analyses
Method	I(s): Ba	iler, Size: trifugal Pumi	Peristal	Bladder Pump	☐ 2" Sub. Pu	mp 🚨 4" Sub. 🗅 Other:	Pump	Ferio	us Iron: mg/L
Materia	ls: Pumb/Bailer			nless PVC				DO:	mg/L
								Nitrat	\
	uls: Tubil g/Rope			ared Off-Site					. \
	to Water at Time	<i>a</i> . u .		<u>., </u>	2	d? □ Yes ∧	7	Sulfa	7 3-
Sample ID: 1153 15ample Date: 6.2.14 Sample Time: 1550 # of Containers: 2 Alkalinity: mg/L									
Duplicate Sample Collected? Yes No ID: # of Containers:									
5. COMMENTS Well developed pi :0, to sampling.									
Hau	results	· 0	.0 M	3/L					
Note: Includ	e comments such	as well cond	ition, odor. pı	esence of NAP	L, or other items	s not on the field	data sheet		
Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.									

1426



WELL ID: 70-42

B. PUR	GE DATA	(contin	ued fron	n page)			In In	
	Cum. Gallons		Temp	Spec. Cond.	ORP	DO	Turbidity		
Time	Removed (gal)	±0:1 su	±2°C	±10 μS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	34.5	Water Level	
516	1.15	•		0.408	111.4	473	Tan	37.5	0
926	130	7.12	25.83	0.421	1180	4.93	17.9	37.50	, /
536	1.35	7.10	25.47	0.424	119.1	4.79	8.94	37.50	
1546	1.50	7.14	25.77	0.458	115.4	4.43	6.31	35.50	1
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Purge data continued on next sheet?

Appendix C: Laboratory Analytical Reports

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 19, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403G24

Analytical Environmental Services, Inc. received 5 samples on 3/19/2014 10:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

CHAIN OF CUSTODY

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 1473424

Date: 3-18.14 Page (of)

No # of Containers 7 N ≥ 2 Business Day Rush
Next Business Day Rush
Same Day Rush (auth req.)
Other Same Day Rush (auth req.) your results, place bottle DATA PACKAGE: I (II) III to check on the status of Tumaround Time Request www.aesatlanta.com Fax? Y(N) Standard 5 Business Days SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. Visit our website セヤ Total # of Containers orders, etc. STATE PROGRAM (if any): REMARKS E-mail(V)N; Standard SEND REPORT TO STANCE 6 b/wm cald. com PROJECT INFORMATION ANALYSIS REQUESTED PRESERVATION (See codes) IF DIFFERENT FROM ABOVE) 140096 **পু** ৩ Macgregor ROJECT NAME SITE ADDRESS: Albany INVOICE TO: PROJECT #: Total Chromiun Total Hex / Chromium METONC Con Con بلأ DATE/TIME (See codes) 3 Matrix CLIENT (Feder UPS MAIL COURIER 30328 990 Hammand Your ansodwo: SHIPMENT METHOD Grab OTHER Atlanta GR 00 330 1460 20 3/8 GREYHOUND SAMPLED RECEIVED BY 363-16 3-18-14 OUT Z FAX DATE/TIME except itott- Dup which it stat. Ct11 x short had the on they tak et. Same day rush on all somples 2-18-14 Brown & Gldwell SAMPLE ID SAMPLED BY STIEN STEEL PECIAL INSTRUCTIONS/COMMENTS: h-m1-EtOH1 14077. FU-3 407-F404 14077- Dup 1-M1-FE011 Bionstule RELINQUISHED BY 13 10 12 # 0 11

NA = None White Copy - Original; Yellow Copy - Client MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water O = Other (specify) N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice H+I = Hydrochloric acid + ice I = Ice only PRESERVATIVE CODES:

Client: BROWN AND CALDWELL Client Sample ID: 14077-TW-1

Project Name: MacGregor Golf Collection Date: 3/18/2014 11:20:00 AM

Lab ID: 1403G24-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	0.0171	0.0100		mg/L	R263594	. 1	03/19/2014 10:40	AB
Chromium, Hexavalent	0.143	0.0100		mg/L	R263594	1	03/19/2014 10:40	AB
METALS, TOTAL SW6010C				(SV	V3010A)			
Chromium	0.160	0.0100		mg/L	188421	1	03/19/2014 15:51	JL

Date:

19-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL Client Sample ID: 14077-TW-2

Project Name: MacGregor Golf Collection Date: 3/18/2014 1:10:00 PM

Lab ID: 1403G24-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0137	0.0100		mg/L	R263594	1	03/19/2014 12:10	AB
Chromium, Hexavalent	0.0204	0.0100		mg/L	R263594	1	03/19/2014 12:10	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0341	0.0100		mg/L	188421	1	03/19/2014 15:55	JL

Date:

19-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL Client Sample ID: 14077-DUP

Project Name: MacGregor Golf Collection Date: 3/18/2014 1:30:00 PM

Lab ID: 1403G24-003 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7196	5 A						
Chromium as Cr+3	BRL	0.0100	mg/L	R263594	4 1	03/19/2014 12:10	AB
Chromium, Hexavalent	0.0263	0.0100	mg/L	R263594	4 1	03/19/2014 12:10	AB
METALS, TOTAL SW6010C			(S	W3010A)			
Chromium	0.0343	0.0100	mg/L	188421	1	03/19/2014 15:59	JL

Date:

19-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

Less than Result value

Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL Client Sample ID: 14077-TW-3

Project Name: MacGregor Golf Collection Date: 3/18/2014 2:50:00 PM

Lab ID: 1403G24-004 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263594	. 1	03/19/2014 12:10	AB
Chromium, Hexavalent	0.0678	0.0100		mg/L	R263594	. 1	03/19/2014 12:10	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0755	0.0100		mg/L	188421	1	03/19/2014 16:02	JL

Date:

19-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL Client Sample ID: 14077-TW-4

Project Name: MacGregor Golf Collection Date: 3/18/2014 4:10:00 PM

Lab ID: 1403G24-005 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0146	0.0100		mg/L	R263594	1	03/19/2014 12:10	AB
Chromium, Hexavalent	0.110	0.0100		mg/L	R263594	1	03/19/2014 12:10	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.125	0.0100		mg/L	188421	1	03/19/2014 16:06	JL

Date:

19-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Sample/Cooler Receipt Checklist

Client Brown & Caldwell		Work Order Number	1403624
Checklist completed by	3.19·14 te		
Carrier name: FedEx / UPS _ Courier _ Client _ U	S Mail Othe	r	
Shipping container/cooler in good condition?	Yes 👱	No Not Present	_
Custody seals intact on shipping container/cooler?	Yes 🗾	No _ Not Present	
Custody seals intact on sample bottles?	Yes _/	No _ Not Present	_
Container/Temp Blank temperature in compliance? (4°C±2)	* Yes <u>/</u>	No	
Cooler #1 3.2 Cooler #2 Cooler #3	Cooler #4 _	Cooler#5	Cooler #6
Chain of custody present?	Yes 🖊	No	
Chain of custody signed when relinquished and received?	Yes /	No	
Chain of custody agrees with sample labels?	Yes 🖊	No	
Samples in proper container/bottle?	Yes 🖊	No	
Sample containers intact?	Yes /	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes 🖊	No	
Was TAT marked on the COC?	Yes 🖊	No	
Proceed with Standard TAT as per project history?	Yes	No Not Applic	able _
Water - VOA vials have zero headspace? No VOA vials s	submitted 🔟	Yes No	
Water - pH acceptable upon receipt?	Yes _/	No Not Applic	able
Adjusted?	Che	cked by	
Sample Condition: Good / Other(Explain)			_
(For diffusive samples or AlHA lead) Is a known blank inclu	ıded? Yes	No /	

See Case Narrative for resolution of the Non-Conformance.

^{*} Samples do not have to comply with the given range for certain parameters.

 $[\]verb|L|Quality| Assurance| Checklists| Procedures| Sign-Off Templates| Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Check$

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403G24

Dates Report

Date: 19-Mar-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403G24-001A	14077-TW-1	3/18/2014 11:20:00AM	Groundwater	TOTAL METALS BY ICP		03/19/2014	03/19/2014
1403G24-001B	14077-TW-1	3/18/2014 11:20:00AM	Groundwater	Hexavalent Chromium			03/19/2014
1403G24-002A	14077-TW-2	3/18/2014 1:10:00PM	Groundwater	TOTAL METALS BY ICP		03/19/2014	03/19/2014
1403G24-002B	14077-TW-2	3/18/2014 1:10:00PM	Groundwater	Hexavalent Chromium			03/19/2014
1403G24-003A	14077-DUP	3/18/2014 1:30:00PM	Groundwater	TOTAL METALS BY ICP		03/19/2014	03/19/2014
1403G24-003B	14077-DUP	3/18/2014 1:30:00PM	Groundwater	Hexavalent Chromium			03/19/2014
1403G24-004A	14077-TW-3	3/18/2014 2:50:00PM	Groundwater	TOTAL METALS BY ICP		03/19/2014	03/19/2014
1403G24-004B	14077-TW-3	3/18/2014 2:50:00PM	Groundwater	Hexavalent Chromium			03/19/2014
1403G24-005A	14077-TW-4	3/18/2014 4:10:00PM	Groundwater	TOTAL METALS BY ICP		03/19/2014	03/19/2014
1403G24-005B	14077-TW-4	3/18/2014 4:10:00PM	Groundwater	Hexavalent Chromium			03/19/2014

19-Mar-14 Date:

Client: BROWN AND CALDWELL

ANALYTICAL QC SUMMARY REPORT

Project Name: MacGregor Golf 1403G24 Workorder:

BatchID: 188421

Sample ID: MB-188421 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL S	SW6010C		Uni Bat	ts: mg/L chID: 188421		p Date: alysis Date:	03/18/2014 03/19/2014	Run No: 263617 Seq No: 5546108
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Arsenic	BRL	0.0500								
Barium	BRL	0.0200								
Cadmium	BRL	0.0050								
Calcium	BRL	0.100								
Chromium	BRL	0.0100								
Cobalt	BRL	0.0200								
Copper	BRL	0.0100								
ron	BRL	0.100								
Lead	BRL	0.0100								
Magnesium	BRL	0.100								
Nickel	BRL	0.0200								
Selenium	BRL	0.0200								
Silver	BRL	0.0100								
Vanadium	BRL	0.0100								
Zinc	BRL	0.0200								
Sample ID: LCS-188421 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL S	SW6010C		Uni Bat	ts: mg/L chID: 188421		p Date: alysis Date:	03/18/2014 03/19/2014	Run No: 263617 Seq No: 5546105
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Arsenic	0.9978	0.0500	1.000		99.8	80	120			
Barium	1.068	0.0200	1.000		107	80	120			
Cadmium	1.091	0.0050	1.000		109	80	120			
Calcium	10.67	0.100	10.00		107	80	120			
Chromium	0.9841	0.0100	1.000		98.4	80	120			
Cobalt	1.053	0.0200	1.000		105	80	120			
Copper	1.037	0.0100	1.000		104	80	120			
Qualifiers: > Greater than Result v	ralue		< Less	than Result value				-	n the associated method	
BRL Below reporting limit	t		E Estim	ated (value above quantita	ation range)		Н	Holding times for	preparation or analysis	exceeded
	ected below Reporting		N Analy	te not NELAC certified				RPD outside limit		

Date: 19-Mar-14

Client: BROWN AND CALDWELL

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Project Name: MacGregor Golf

1403G24 Workorder:

ANALYTICAL QC SUMMARY REPORT

BatchID: 188421

Sample ID: LCS-188421 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL S	SW6010C		Un Bat	its: mg/L chID: 188421		Date:	03/18/2014 03/19/2014	Run No: 263617 Seq No: 5546105
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RPD	RPD Limit Qua
Iron	9.920	0.100	10.00		99.2	80	120			
Lead	1.046	0.0100	1.000		105	80	120			
Magnesium	10.55	0.100	10.00		105	80	120			
Nickel	1.070	0.0200	1.000		107	80	120			
Selenium	0.9749	0.0200	1.000		97.5	80	120			
Silver	0.1055	0.0100	0.1000		105	80	120			
Vanadium	1.024	0.0100	1.000		102	80	120			
Zinc	1.089	0.0200	1.000		109	80	120			
Sample ID: 1403A85-003EMS	Client ID:				Un	its: mg/L	Prep	Date:	03/18/2014	Run No: 263617
SampleType: MS	TestCode:	METALS, TOTAL S	SW6010C		Bat	chID: 188421	Ana	llysis Date:	03/19/2014	Seq No: 5546112
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	f Val %RPD	RPD Limit Qua
Arsenic	1.002	0.0500	1.000		100	75	125			
Barium	1.022	0.0200	1.000	0.02366	99.9	75	125			
Cadmium	1.022	0.0050	1.000		102	75	125			
Calcium	118.1	0.100	10.00	110.5	76.6	75	125			
Chromium	0.9577	0.0100	1.000		95.8	75	125			
Cobalt	0.9881	0.0200	1.000		98.8	75	125			
Copper	0.9797	0.0100	1.000	0.0009845	97.9	75	125			
Iron	9.538	0.100	10.00	0.1501	93.9	75	125			
Lead	0.9735	0.0100	1.000		97.3	75	125			
Magnesium	24.00	0.100	10.00	14.37	96.4	75	125			
Nickel	0.9805	0.0200	1.000		98.1	75	125			
Selenium	0.9722	0.0200	1.000		97.2	75	125			
Silver	0.09945	0.0100	0.1000		99.5	75	125			
Vanadium	0.9957	0.0100	1.000	0.002658	99.3	75	125			
Zinc	0.9961	0.0200	1.000		99.6	75	125			
Qualifiers: > Greater than Result val	lue		< Less	han Result value			В	Analyte detected	in the associated method	blank
BRL Below reporting limit			E Estim	ated (value above quantita	ation range)		Н	Holding times fo	r preparation or analysis	exceeded

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

R RPD outside limits due to matrix

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403G24

ANALYTICAL QC SUMMARY REPORT

BatchID: 188421

Date:

19-Mar-14

Sample ID: 1403A85-003EMSD SampleType: MSD	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188421		Date: 03/18 lysis Date: 03/19		Run No: 26361 Seq No: 55461	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9870	0.0500	1.000		98.7	75	125	1.002	1.54	20	
Barium	1.008	0.0200	1.000	0.02366	98.4	75	125	1.022	1.47	20	
Cadmium	1.006	0.0050	1.000		101	75	125	1.022	1.65	20	
Calcium	115.2	0.100	10.00	110.5	46.8	75	125	118.1	2.55	20	S
Chromium	0.9418	0.0100	1.000		94.2	75	125	0.9577	1.68	20	
Cobalt	0.9719	0.0200	1.000		97.2	75	125	0.9881	1.66	20	
Copper	0.9684	0.0100	1.000	0.0009845	96.7	75	125	0.9797	1.16	20	
Iron	9.416	0.100	10.00	0.1501	92.7	75	125	9.538	1.29	20	
Lead	0.9514	0.0100	1.000		95.1	75	125	0.9735	2.30	20	
Magnesium	23.31	0.100	10.00	14.37	89.4	75	125	24.00	2.94	20	
Nickel	0.9646	0.0200	1.000		96.5	75	125	0.9805	1.63	20	
Selenium	0.9592	0.0200	1.000		95.9	75	125	0.9722	1.35	20	
Silver	0.09736	0.0100	0.1000		97.4	75	125	0.09945	2.12	20	
Vanadium	0.9818	0.0100	1.000	0.002658	97.9	75	125	0.9957	1.40	20	
Zinc	0.9737	0.0200	1.000		97.4	75	125	0.9961	2.27	20	

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403G24

ANALYTICAL QC SUMMARY REPORT

BatchID: R263594

Date:

19-Mar-14

Sample ID: MB-R263594	Client ID:				Uni	its: mg/L	Prej	Date:		Run No: 263594
SampleType: MBLK	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26359	4 Ana	alysis Date: 03/19	/2014	Seq No: 5545470
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu
Chromium, Hexavalent	BRL	0.0100								
Sample ID: LCS-R263594	Client ID:				Uni	its: mg/L	Pre	Date:		Run No: 263594
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26359	4 Ana	alysis Date: 03/19	/2014	Seq No: 5545471
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu
Chromium, Hexavalent	0.4601	0.0100	0.5000		92.0	90	110			
Sample ID: 1403G24-001BMS	Client ID:	14077-TW-1			Uni	its: mg/L	Pre	Date:		Run No: 263594
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26359	4 Ana	alysis Date: 03/19	/2014	Seq No: 5545481
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu
Chromium, Hexavalent	0.6314	0.0100	0.5000	0.1434	97.6	85	115			
Sample ID: 1403G24-001BMSD	Client ID:	14077-TW-1			Uni	its: mg/L	Pre	Date:		Run No: 263594
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26359	4 Ana	alysis Date: 03/19	/2014	Seq No: 5545485
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 20, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403H45

Analytical Environmental Services, Inc. received 5 samples on 3/20/2014 10:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

CHAIN OF CUSTODY

ANAL YTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

AES

7t:

Work Order: 1413H 45 oť Page Date: 3-19-14

No # of Containers \mathcal{I} 6 your results, place bottle to check on the status of Jumaround Time Request Standard 5 Business Days www.aesatlanta.com Next Business Day Rush Visit our website 2 Business Day Rush TAT Total # of Containers RECEIPT orders, etc. REMARKS standard 00 SENDREPORT TO: SJOACS (& brun cyld. com PROJECT INFORMATION ANALYSIS REQUESTED PRESERVATION (See codes) ر ک PROJECT #: 145016 Margicyer 64 Albany PROJECT NAME: SITE ADDRESS: 台上 Total Hex/Th X DATE/TIME 3 3 (See codes) 3 3 3 xinst/\ 10101 Сотрояте 3535 Grab 2,2014 ago Hammond Atlanta GA 3-19-14/0925 TIME 956 629 1130 1005 SAMPLED RECEIVED BY SIGNATURE DATE FAX DATE/TIME 1 (430 Brown & Caldwell 7-19-14 SAMPLE ID 4078-TW-7 8-MI-8+04 Brian steele 14078-TW-5-M1-8toh1 14078-EB Bion steel **TELINQUISHED BY** SAMPLED B

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION IN ITESS OFHER ARDANGEMENTS ADE MANE O = Other (specify) NA = None
White Copy - Original; Yellow Copy - Client GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid SHI = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. MATRIX CODES: A = Air

CLIENT (FedEX) UPS MAIL COURIER

 \geq

Fax? Y (N)

E-mail? YN;

STATE PROGRAM (if any):

Same Day Rush (auth req.)

9 0

IF DIFFERENT FROM ABOVE)

INVOICE TO:

SHIPMENT METHOD VIA

> OUT Z

Page 2 of 14

\$ 411 samples same day Rush, Gray

A work short hald times.

PECIAL INSTRUCTIONS/COMMENTS:

13

12

10

14078-EB Which is STAT

Client: BROWN AND CALDWELL

Project: MacGregor Golf Case Narrative

Date:

20-Mar-14

Lab ID: 1403H45

Proceed out of hold with Hex Cr per Sarah Jones email 3/20

Client: BROWN AND CALDWELL Client Sample ID: 14078-TW-5

Project Name: MacGregor Golf Collection Date: 3/19/2014 9:25:00 AM

Lab ID: 1403H45-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100	Н	mg/L	R263701	1	03/20/2014 11:00	AB
Chromium, Hexavalent	0.0699	0.0100	Н	mg/L	R263701	1	03/20/2014 11:00	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	0.0750	0.0100		mg/L	188530	1	03/20/2014 15:38	JL

Date:

20-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL Client Sample ID: 14078-EB

Project Name: MacGregor Golf Collection Date: 3/19/2014 10:05:00 AM

Lab ID: 1403H45-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100	Н	mg/L	R263701	1	03/20/2014 11:00	AB
Chromium, Hexavalent	BRL	0.0100	Н	mg/L	R263701	1	03/20/2014 11:00	AB
METALS, TOTAL SW6010C				(SV	V3010A)			
Chromium	BRL	0.0100		mg/L	188530	1	03/20/2014 15:42	JL

Date:

20-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14078-TW-6

Project Name: MacGregor Golf Collection Date: 3/19/2014 11:30:00 AM

Lab ID: 1403H45-003 **Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	0.0190	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	0.0199	0.0100		mg/L	188530	1	03/20/2014 15:45	JL

Date:

20-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14078-TW-7

Project Name: MacGregor Golf Collection Date: 3/19/2014 1:55:00 PM

Date:

20-Mar-14

Lab ID: 1403H45-004 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED SW6010C				(SW	/3005A)			
Chromium	BRL	0.0100		mg/L	188590	1	03/20/2014 14:55	JL
Hexavalent Chromium, Dissolved SW	7196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	188530	1	03/20/2014 15:49	JL

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14078-TW-8

Project Name: MacGregor Golf Collection Date: 3/19/2014 4:25:00 PM

Lab ID: 1403H45-005 **Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
Chromium, Hexavalent	0.0130	0.0100		mg/L	R263701	1	03/20/2014 11:00	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	0.0202	0.0100		mg/L	188530	1	03/20/2014 15:53	JL

Date:

20-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Order Number 1403 H45
Checklist completed by Aan 3 2 Signature Date	20/14	
Carrier name: FedExUPS Courier Client US	S Mail Other	r
Shipping container/cooler in good condition?	Yes 🖊	No Not Present
Custody seals intact on shipping container/cooler?	Yes _	No Not Present
Custody seals intact on sample bottles?	Yes 🖊	No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes _	No
Cooler #1 3-2 Cooler #2 Cooler #3	_ Cooler #4 _	Cooler#5 Cooler #6
Chain of custody present?	Yes _	No
Chain of custody signed when relinquished and received?	Yes _	No
Chain of custody agrees with sample labels?	Yes 🗸	No
Samples in proper container/bottle?	Yes _	No
Sample containers intact?	Yes Z	No
Sufficient sample volume for indicated test?	Yes _/	
All samples received within holding time?	Yes 23/20	No _
Was TAT marked on the COC?	Yes _	
Proceed with Standard TAT as per project history?	Yes	No Not Applicable <a>
Water - VOA vials have zero headspace? No VOA vials su	ubmitted <u></u>	Yes No
Water - pH acceptable upon receipt?	Yes C	No Not Applicable
		cked by <u>SP</u>
Sample Condition: Good / Other(Explain)		
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes	No /

See Case Narrative for resolution of the Non-Conformance.

 $\verb|L|Quality| Assurance| Checklists| Procedures Sign-Off Templates| Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checkl$

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403H45

Dates Report

Date: 20-Mar-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403H45-001A	14078-TW-5	3/19/2014 9:25:00AM	Groundwater	TOTAL METALS BY ICP		03/20/2014	03/20/2014
1403H45-001B	14078-TW-5	3/19/2014 9:25:00AM	Groundwater	Hexavalent Chromium			03/20/2014
1403H45-002A	14078-EB	3/19/2014 10:05:00AM	Groundwater	TOTAL METALS BY ICP		03/20/2014	03/20/2014
1403H45-002B	14078-EB	3/19/2014 10:05:00AM	Groundwater	Hexavalent Chromium			03/20/2014
1403H45-003A	14078-TW-6	3/19/2014 11:30:00AM	Groundwater	TOTAL METALS BY ICP		03/20/2014	03/20/2014
1403H45-003B	14078-TW-6	3/19/2014 11:30:00AM	Groundwater	Hexavalent Chromium			03/20/2014
1403H45-004A	14078-TW-7	3/19/2014 1:55:00PM	Groundwater	TOTAL METALS BY ICP		03/20/2014	03/20/2014
1403H45-004B	14078-TW-7	3/19/2014 1:55:00PM	Groundwater	Hexavalent Chromium			03/20/2014
1403H45-004C	14078-TW-7	3/19/2014 1:55:00PM	Groundwater	DISSOLVED METALS BY ICP		03/20/2014	03/20/2014
1403H45-004D	14078-TW-7	3/19/2014 1:55:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/20/2014
1403H45-005A	14078-TW-8	3/19/2014 4:25:00PM	Groundwater	TOTAL METALS BY ICP		03/20/2014	03/20/2014
1403H45-005B	14078-TW-8	3/19/2014 4:25:00PM	Groundwater	Hexavalent Chromium			03/20/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403H45

ANALYTICAL QC SUMMARY REPORT

Date:

20-Mar-14

BatchID: 188530

Sample ID: MB-188530 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188530		Date: 03/19 ysis Date: 03/20		Run No: Seq No:	263712 5548118
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188530 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188530	-	Date: 03/19 ysis Date: 03/20		Run No: Seq No:	263712 5548117
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.023	0.0100	1.000		102	80	120				
Sample ID: 1403G09-001GMS SampleType: MS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188530	•	Date: 03/19 ysis Date: 03/20		Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.028	0.0100	1.000		103	75	125				
Sample ID: 1403G09-001GMSD SampleType: MSD	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188530		Date: 03/19 ysis Date: 03/20		Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.029	0.0100	1.000		103	75	125	1.028	0.113	2	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403H45

ANALYTICAL QC SUMMARY REPORT

BatchID: 188590

Date:

20-Mar-14

Sample ID: MB-188590	Client ID:	METALC DISCOLVED	SW(010C		Uni		Prep Date:	03/20/2014	Run No: 263719
SampleType: MBLK	TestCode:	METALS, DISSOLVED	SW6010C		Bate	chID: 188590	Analysis Date	: 03/20/2014	Seq No: 5548437
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RPD R	ef Val %RPD	RPD Limit Qual
Chromium	BRL	0.0100							
Sample ID: LCS-188590	Client ID:				Uni	ts: mg/L	Prep Date:	03/20/2014	Run No: 263719
SampleType: LCS	TestCode:	METALS, DISSOLVED	SW6010C		Bate	chID: 188590	Analysis Date	: 03/20/2014	Seq No: 5548435
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RPD R	ef Val %RPD	RPD Limit Qual
Chromium	0.9675	0.0100	1.000		96.7	80	120		
Sample ID: 1403H45-004CMS	Client ID:	14078-TW-7			Uni	ts: mg/L	Prep Date:	03/20/2014	Run No: 263719
SampleType: MS	TestCode:	METALS, DISSOLVED	SW6010C		Bate	chID: 188590	Analysis Date	: 03/20/2014	Seq No: 5548440
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RPD R	ef Val %RPD	RPD Limit Qual
Chromium	0.8963	0.0100	1.000		89.6	75	125		
Sample ID: 1403H45-004CMSD	Client ID:	14078-TW-7			Uni	ts: mg/L	Prep Date:	03/20/2014	Run No: 263719
SampleType: MSD	TestCode:	METALS, DISSOLVED	SW6010C		Bate	chID: 188590	Analysis Date	: 03/20/2014	Seq No: 5548441
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RPD R	ef Val %RPD	RPD Limit Qual
Chromium	0.9485	0.0100	1.000		94.9	75	125 0.89	63 5.67	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

G G 1 B

Less than Result value

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

E Estimated (value above quantitation range)

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403H45

ANALYTICAL QC SUMMARY REPORT

BatchID: R263701

Date:

20-Mar-14

Sample ID: MB-R263701	Client ID:				Uni	ts: mg/L	Pre	p Date:		Run No: 263701
SampleType: MBLK	TestCode: 1	Hexavalent Chromium, l	Dissolved SW7	196A	Bate	chID: R26370	1 Ana	alysis Date:	03/20/2014	Seq No: 5547961
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	D RPD Limit Qua
Chromium, Hexavalent	BRL	0.0100								
Sample ID: MB-R263701	Client ID:				Uni	ts: mg/L	Pre	p Date:		Run No: 263701
SampleType: MBLK	TestCode: 1	Hexavalent Chromium i	Water SW71	96A	Bate	chID: R26370	1 Ana	alysis Date:	03/20/2014	Seq No: 5547969
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	D RPD Limit Qua
Chromium, Hexavalent	BRL	0.0100								
Sample ID: LCS-R263701	Client ID:				Uni	ts: mg/L	Pre	p Date:		Run No: 263701
SampleType: LCS	TestCode: 1	Hexavalent Chromium, l	Dissolved SW7	196A	Bate	chID: R26370	1 Ana	alysis Date:	03/20/2014	Seq No: 5547962
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	D RPD Limit Qua
Chromium, Hexavalent	0.4601	0.0100	0.5000		92.0	90	110			
Sample ID: LCS-R263701	Client ID:				Uni	ts: mg/L	Pre	p Date:		Run No: 263701
SampleType: LCS	TestCode: 1	Hexavalent Chromium i	Water SW71	96A	Bate	chID: R26370	1 Ana	alysis Date:	03/20/2014	Seq No: 5547970
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	D RPD Limit Qua
Chromium, Hexavalent	0.4601	0.0100	0.5000		92.0	90	110			
Sample ID: 1403H45-004DMS	Client ID:	14078-TW-7			Uni	ts: mg/L	Pre	p Date:		Run No: 263701
SampleType: MS	TestCode: 1	Hexavalent Chromium, l	Dissolved SW7	196A	Bate	chID: R26370	1 Ana	alysis Date:	03/20/2014	Seq No: 5547964
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPI	D RPD Limit Qua
Chromium, Hexavalent	0.4633	0.0100	0.5000		92.7	85	115			

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

MacGregor Golf **Project Name:**

Workorder: 1403H45

ANALYTICAL QC SUMMARY REPORT

Date:

20-Mar-14

BatchID: R263701

Sample ID: 1403H45-005BMS		14078-TW-8 Hexavalent Chromium in	Uni		Run No: 263701					
SampleType: MS	TestCode:	nexavalent Chromium ii	i water Sw/1	70A	Ват	chID: R26370	I Ana	lysis Date: 03/20	/2014	Seq No: 5547980
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chromium, Hexavalent	0.4633	0.0100	0.5000	0.01300	90.1	85	115			
Sample ID: 1403H45-004DMSD	Client ID:	14078-TW-7			Uni	ts: mg/L	Prep	Date:		Run No: 263701
SampleType: MSD	TestCode:	Hexavalent Chromium, I	196A	Bate	BatchID: R263701 Analysis Date: 03/20/2				Seq No: 5547965	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chromium, Hexavalent	0.4590	0.0100	0.5000		91.8	85	115	0.4633	0.932	20
Sample ID: 1403H45-005BMSD	Client ID:	14078-TW-8			Uni	ts: mg/L	Prep	Date:		Run No: 263701
SampleType: MSD	TestCode:	Hexavalent Chromium in	96A	Bate	chID: R26370	1 Ana	lysis Date: 03/20	/2014	Seq No: 5547987	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chromium, Hexavalent	0.4601	0.0100	0.5000	0.01300	89.4	85	115	0.4633	0.693	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 24, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403I67

Analytical Environmental Services, Inc. received 7 samples on 3/21/2014 10:05:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

CHAIN OF CUSTODY

Work Order: 1463T

ōţ

Date 3 - 20-14 Page

ANAL YTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

No # of Containers 2 Same Day Rush (auth req.) your results, place bottle E-mail? (**) N; Fax? Y (**)
DATA PACKAGE: 1 (**) III to check on the status of Turnaround Time Request Standard 5 Business Days www.aesatlanta.com Next Business Day Rush SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. TAT TAT 2 Business Day Rush Visit our website TAT Total # of Containers RECEIPT orders, etc. STATE PROGRAM (if any): REMARKS standerd standa+ C+Crace Other 0000 CON. SEND REPORT TO: 5 JOAC F G BC WA CALL PROJECT INFORMATION ANALYSIS REQUESTED PRESERVATION (See codes) (IF DIFFERENT FROM ABOVE) CA PROJECT# 145096 Macgledar SITE ADDRESS:
A (b 00 4) PROJECT NAME INVOICE TO: 11/20H) QUOTE # 1040 6 inoin) DATE/TIME Matrix (See codes) 30 3 30 3 30 3 UPS MAIL COURIER No: 01 Pil 32505 элгодшо SHIPMENT METHOD VIA VIA OTHER X Cirab 2 71 990 Hammond 1720 CLIENT (Fedex 546 1430 GREYHOUND 135 000 1400 TIME 3 Atlanta SAMPLED RECEIVED BY P-02-8 SIGNATURE 3 20-14 DATE OUT \mathbf{Z} FAX: DATE/TIME 7.83-6ch1 P 83-68.5 day rush 3-20-64 Brown & Caldwell except HOTA-OUP + SAMPLE ID SPECIAL INSTRUCTIONS/COMMENTS: All samples are some 11-10 3 1-M1 - 6tohi 8 DOD p-m1. btohl 2 cel 83-65CH reen 14079-14046-- btoh 050hi **JELINQUISHED BY** SAMPLED BY S 13 01 13 0 11

O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Water Water MATRIX CODES A = Air PRESERVATIVE CODES:

Page 2 of 13

Client: BROWN AND CALDWELL Client Sample ID: 14079-TW-9

Project Name: MacGregor Golf Collection Date: 3/20/2014 10:05:00 AM

Lab ID: 1403167-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	0.0146	0.0100	Н	mg/L	R263821	1	03/21/2014 11:15	AB
Chromium, Hexavalent	BRL	0.0100	Н	mg/L	R263821	1	03/21/2014 11:15	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	0.0146	0.0100		mg/L	188615	1	03/21/2014 16:18	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14079-TW-10

Project Name: MacGregor Golf Collection Date: 3/20/2014 11:35:00 AM

Lab ID: 1403167-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0106	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	0.0105	0.0100		mg/L	188615	1	03/21/2014 16:22	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14079-TW-12

Project Name: MacGregor Golf Collection Date: 3/20/2014 2:30:00 PM

Lab ID: 1403167-003 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	6A							
Chromium as Cr+3	0.0106	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0106	0.0100		mg/L	188615	1	03/21/2014 16:26	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14079-DUP

Project Name: MacGregor Golf Collection Date: 3/20/2014 5:25:00 PM

Lab ID: 1403167-004 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A						
Chromium as Cr+3	0.274	0.0100	mg	/L R26382	1 1	03/21/2014 11:15	AB
Chromium, Hexavalent	1.46	0.0500	mg	/L R26382	1 5	03/21/2014 11:15	AB
METALS, TOTAL SW6010C			(SW3010A)			
Chromium	1.73	0.0100	mg	/L 188615	1	03/21/2014 16:38	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14079-EB-2

Project Name: MacGregor Golf Collection Date: 3/20/2014 5:45:00 PM

Lab ID: 1403167-005 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	188615	1	03/21/2014 16:42	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14079-TW-11

Project Name: MacGregor Golf Collection Date: 3/20/2014 5:20:00 PM

Lab ID: 1403167-006 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	0.250	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
Chromium, Hexavalent	1.49	0.0500		mg/L	R263821	5	03/21/2014 11:15	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	1.74	0.0100		mg/L	188615	1	03/21/2014 16:46	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14079-EB

Project Name: MacGregor Golf Collection Date: 3/20/2014 2:00:00 PM

Lab ID: 1403167-007 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263821	1	03/21/2014 11:15	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	188615	1	03/21/2014 15:59	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Orde	r Number 1403 I 107
Checklist completed by Signature Date	121/14		
Carrier name: FedEx UPS Courier Client US	S Mail Other	·	_
Shipping container/cooler in good condition?	Yes _	No	Not Present
Custody seals intact on shipping container/cooler?	Yes _	No _	Not Present
Custody seals intact on sample bottles?	Yes _	No	Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes _	No _	
Cooler #1 3. Cooler #2 Cooler #3	_ Cooler #4 _	Coo	oler#5 Cooler #6
Chain of custody present?	Yes _	No	
Chain of custody signed when relinquished and received?	Yes _	No	
Chain of custody agrees with sample labels?	Yes _	No	
Samples in proper container/bottle?	Yes _	No _	
Sample containers intact?	Yes _	No	
Sufficient sample volume for indicated test?	Yes /	No	
All samples received within holding time?	Yex	No /	
Was TAT marked on the COC?	Yes _	No	
Proceed with Standard TAT as per project history?	Yes	No _	Not Applicable
Water - VOA vials have zero headspace? No VOA vials su	abmitted	Yes	No
Water - pH acceptable upon receipt?	Yes _	No	Not Applicable
Adjusted?	Che	cked by	98
Sample Condition: Good Other(Explain)			
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes	_	No _

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403167

Dates Report

Date: 24-Mar-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403I67-001A	14079-TW-9	3/20/2014 10:05:00AM	Groundwater	TOTAL METALS BY ICP		03/21/2014	03/21/2014
1403I67-001B	14079-TW-9	3/20/2014 10:05:00AM	Groundwater	Hexavalent Chromium			03/21/2014
1403I67-002A	14079-TW-10	3/20/2014 11:35:00AM	Groundwater	TOTAL METALS BY ICP		03/21/2014	03/21/2014
1403I67-002B	14079-TW-10	3/20/2014 11:35:00AM	Groundwater	Hexavalent Chromium			03/21/2014
1403I67-003A	14079-TW-12	3/20/2014 2:30:00PM	Groundwater	TOTAL METALS BY ICP		03/21/2014	03/21/2014
1403I67-003B	14079-TW-12	3/20/2014 2:30:00PM	Groundwater	Hexavalent Chromium			03/21/2014
1403I67-004A	14079-DUP	3/20/2014 5:25:00PM	Groundwater	TOTAL METALS BY ICP		03/21/2014	03/21/2014
1403I67-004B	14079-DUP	3/20/2014 5:25:00PM	Groundwater	Hexavalent Chromium			03/21/2014
1403I67-005A	14079-EB-2	3/20/2014 5:45:00PM	Groundwater	TOTAL METALS BY ICP		03/21/2014	03/21/2014
1403l67-005B	14079-EB-2	3/20/2014 5:45:00PM	Groundwater	Hexavalent Chromium			03/21/2014
1403I67-006A	14079-TW-11	3/20/2014 5:20:00PM	Groundwater	TOTAL METALS BY ICP		03/21/2014	03/21/2014
1403I67-006B	14079-TW-11	3/20/2014 5:20:00PM	Groundwater	Hexavalent Chromium			03/21/2014
1403l67-007A	14079-EB	3/20/2014 2:00:00PM	Groundwater	TOTAL METALS BY ICP		03/21/2014	03/21/2014
1403I67-007B	14079-EB	3/20/2014 2:00:00PM	Groundwater	Hexavalent Chromium			03/21/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403I67

ANALYTICAL QC SUMMARY REPORT

BatchID: 188615

Date:

24-Mar-14

Sample ID: MB-188615 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188615		Date: 03/		Run No: Seq No:	263818 5551066
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	l %RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188615 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188615	-	Date: 03/		Run No: Seq No:	263818 5551065
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	l %RPD	RPD	Limit Qual
Chromium	1.092	0.0100	1.000	0.002478	109	80	120				
Sample ID: 1403I67-007AMS SampleType: MS		14079-EB METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188615		Date: 03/		Run No: Seq No:	263818 5551069
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	l %RPD	RPD	Limit Qual
Chromium	1.116	0.0100	1.000	0.003011	111	75	125				
Sample ID: 1403I67-007AMSD SampleType: MSD		14079-EB METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 188615		Date: 03/		Run No: Seq No:	263818 5551070
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	l %RPD	RPD	Limit Qual
Chromium	1.125	0.0100	1.000	0.003011	112	75	125	1.116	0.731		20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

Below reporting limit

S Spike Recovery outside limits due to matrix

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

R RPD outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403I67

ANALYTICAL QC SUMMARY REPORT

BatchID: R263821

Date:

24-Mar-14

Sample ID: MB-R263821	Client ID:				Uni			p Date:		Run No:	
SampleType: MBLK	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26382	1 Ana	alysis Date: 03/21	/2014	Seq No:	5550560
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R263821	Client ID:				Uni	its: mg/L	Pre	p Date:		Run No:	263821
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26382	1 Ana	alysis Date: 03/21	/2014	Seq No:	5550561
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4680	0.0100	0.5000		93.6	90	110				
Sample ID: 1403I67-002BMS	Client ID:	14079-TW-10			Uni	its: mg/L	Pre	p Date:		Run No:	263821
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26382	1 Ana	alysis Date: 03/21	/2014	Seq No:	5550594
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4856	0.0100	0.5000	0.002900	96.5	85	115				
Sample ID: 1403I67-002BMSD	Client ID:	14079-TW-10			Uni	its: mg/L	Pre	p Date:		Run No:	263821
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26382	1 Ana	alysis Date: 03/21	/2014	Seq No:	5550600
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD	Limit Qual
Chromium, Hexavalent	0.4899	0.0100	0.5000	0.002900	97.4	85	115	0.4856	0.882	. 2	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 24, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403J85

Analytical Environmental Services, Inc. received 3 samples on 3/22/2014 9:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Taralesback

ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188 3080 Presidential Drive, Atlanta GA 30340-3704

AES

:#:

Date: 3 -21-14

ō,

1465585 Work Order:

9 \geq N No # of Containers Same Day Rush (auth req.) 111 Tumaround Time Request Standard 5 Business Days your results, place bottle to check on the status of Mext Business Day Rush www.aesatlanta.com 2 Business Day Rush Visit our website Fotal # of Containers RECEIPT orders, etc. STATE PROGRAM (if any): REMARKS DATA PACKAGE: Other E-mail 000 500 SJONES CHOMMICALD PROJECT INFORMATION ANALYSIS REQUESTED PRESERVATION (See codes) IF DIFFERENT FROM ABOVE) GA 46696 Magrego SEND REPORT TO A Chang ROJECT NAME: SITTE ADDRESS: INVOICE TO: ROBCT# S QUOTE #: ANH. 16401 DATE/TIME 9.00 (See codes) 3 3 39 Matrix UPS MAIL COURIER 30328 Composite 990 Hammand Dr SHIPMENT METHOD VIA VIA Grab OTHER Atlanta GA 650 535 GREYHOUND CLIENT (FedEX) 225 TIME SAMPLED 3-21-14 RECEIVED BY 3-21-14 SIGNATURE 7-17-14 DATE OUT FAX DATE/TIME 1230 Brown & Caldwell short hald times. 3-21-14/ SAMPLE ID 1-3-SPECIAL INSTRUCTIONS/COMMENTS 12110 Tw- 12 Heel Brion soul 1080 RELINQUISHED BY かちる SAMPLEDB HONE 01 12 13 7

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SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) SW = Surface Water GW = Groundwater SE = Sediment SO = Soil A = Air MATRIX CODES.

Soil SW = Surface Water W = Water (Eding 1 - Soil SW = Soil Bisultate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

PRESERVATIVE CODES:

Page 2 of 8

Client: BROWN AND CALDWELL Client Sample ID: 14080-TW-14

Project Name: MacGregor Golf Collection Date: 3/21/2014 12:25:00 PM

Lab ID: 1403J85-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263841	1	03/22/2014 12:00	VS
Chromium, Hexavalent	0.580	0.0100		mg/L	R263841	1	03/22/2014 12:00	VS
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.587	0.0100		mg/L	188682	1	03/22/2014 14:49	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14080-TW-13

Project Name: MacGregor Golf Collection Date: 3/21/2014 3:35:00 PM

Lab ID: 1403J85-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263841	1	03/22/2014 12:00	VS
Chromium, Hexavalent	0.0561	0.0100		mg/L	R263841	1	03/22/2014 12:00	VS
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0599	0.0100		mg/L	188682	1	03/22/2014 15:14	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14080-TW-22

Project Name: MacGregor Golf Collection Date: 3/21/2014 4:50:00 PM

Lab ID: 1403J85-003 Matrix: Groundwater

								I
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263841	. 1	03/22/2014 12:00	VS
Chromium, Hexavalent	0.0172	0.0100		mg/L	R263841	. 1	03/22/2014 12:00	VS
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0185	0.0100		mg/L	188682	1	03/22/2014 15:18	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

Less than Result value

Sample/Cooler Receipt Checklist

Client Brown & Caldwell		Work Order Number 1403J45
Checklist completed by Amus Mayum 3/	122/14	
Carrier name: FedEx UPS Courier Client US	S Mail Othe	er
Shipping container/cooler in good condition?	Yes 🔽	No Not Present
Custody seals intact on shipping container/cooler?	Yes 1	No Not Present
Custody seals intact on sample bottles?	Yes 🗸	No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes 🗾	No
Cooler #1 3.24 Cooler #2 Cooler #3	Cooler #4 _	Cooler#5 Cooler #6
Chain of custody present?	Yes	No
Chain of custody signed when relinquished and received?	Yes 🗸	No
Chain of custody agrees with sample labels?	Yes 🗸	No
Samples in proper container/bottle?	Yes 👤	No
Sample containers intact?	Yes :	No
Sufficient sample volume for indicated test?	Yes 1	No
All samples received within holding time?	Yes i	No
Was TAT marked on the COC?	Yes 🖊	No /
Proceed with Standard TAT as per project history?	Yes _ /	No Not Applicable
Water - VOA vials have zero headspace? No VOA vials su	ubmitted 🗸	Yes No
Water - pH acceptable upon receipt?	Yes 💆	No Not Applicable
Adjusted?	Che	ecked by <u>&M</u>
Sample Condition: Good Other(Explain)		
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes	s No •

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403J85

ANALYTICAL QC SUMMARY REPORT

BatchID: 188682

Date:

24-Mar-14

Sample ID: MB-188682	Client ID:				Uni	its: mg/L	Prep Date	e: 03/22/	2014	Run No:	263844
SampleType: MBLK	TestCode:	METALS, TOTAL	SW6010C		Bat	chID: 188682	Analysis	Date: 03/22/	2014	Seq No:	5551431
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RF	D Ref Val	%RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188682	Client ID:				Uni	its: mg/L	Prep Date	e: 03/22/	2014	Run No:	263844
SampleType: LCS	TestCode:	METALS, TOTAL	SW6010C		Bat	chID: 188682	Analysis	Date: 03/22/	2014	Seq No:	5551430
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RF	D Ref Val	%RPD	RPD	Limit Qual
Chromium	0.9917	0.0100	1.000		99.2	80	120				
Sample ID: 1403J85-001AMS	Client ID:	14080-TW-14			Uni	its: mg/L	Prep Date	e: 03/22/	2014	Run No:	263844
SampleType: MS	TestCode:	METALS, TOTAL	SW6010C		Bat	chID: 188682	Analysis	Date: 03/22/	2014	Seq No:	5551435
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RF	D Ref Val	%RPD	RPD	Limit Qual
Chromium	1.490	0.0100	1.000	0.5866	90.3	75	125				
Sample ID: 1403J85-001AMSD	Client ID:	14080-TW-14			Uni	its: mg/L	Prep Date	e: 03/22/	2014	Run No:	263844
SampleType: MSD	TestCode:	METALS, TOTAL	SW6010C		Bat	chID: 188682	Analysis	Date: 03/22/	2014	Seq No:	5551436
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit RF	D Ref Val	%RPD	RPD	Limit Qual
Chromium	1.491	0.0100	1.000	0.5866	90.4	75	125	1.490	0.091	2	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403J85

ANALYTICAL QC SUMMARY REPORT

BatchID: R263841

Date:

24-Mar-14

Sample ID: MB-R263841 SampleType: MBLK	Client ID: TestCode:	Hexavalent Chromium in	Water SW71	96A	Uni Bat	its: mg/L chID: R26384		Date: Alysis Date: 03/22	2/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium as Cr+3	BRL	0.0100									
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R263841 SampleType: LCS	Client ID: TestCode:	Hexavalent Chromium in	Water SW71	96A	Uni Bat	its: mg/L chID: R26384		Date: O Date: 03/22	2/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4760	0.0100	0.5000		95.2	90	110				
Sample ID: 1403J87-001DMS SampleType: MS	Client ID: TestCode:	Hexavalent Chromium in	Water SW71	96A	Uni Bat	its: mg/L chID: R26384		Date: alysis Date: 03/22	2/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4824	0.0100	0.5000		96.5	85	115				
Sample ID: 1403J87-001DMSD SampleType: MSD	Client ID: TestCode:	Hexavalent Chromium in	Water SW71	96A	Uni Bat	its: mg/L chID: R26384		Date: O Date: 03/22	2/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4766	0.0100	0.5000		95.3	85	115	0.4824	1.21	2	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 24, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403K50

Analytical Environmental Services, Inc. received 2 samples on 3/22/2014 6:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Taralesback

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Page Date: 3-12-14

of

Work Order: 11/03/

CHAIN OF CUSTODY

No # of Containers 7 N VI III Same Day Rush (auth req.) to check on the status of your results, place bottle www.aesatlanta.com Tumaround Time Request Standard 5 Business Days Next Business Day Rush SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES. A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Water Water Visit our website 2 Business Day Rush Total # of Containers Fax? RECEIPT orders, etc. STATE PROGRAM (if any): REMARKS DATA PACKAGE: E-mail? Y N; Other 60 SEND REPORT TO: 5 JONES GO Driwn Cald. COM PROJECT INFORMATION ANALYSIS REQUESTED PRESERVATION (See codes) IF DIFFERENT FROM ABOVE) 150gl Macgiego SITE ADDRESS: PROJECT NAME INVOICE TO: ROJECT # WIWOJY QUOTE # 5 EV. y Chromium 1010 DATE/TIME (See codes) 3 30 Matrix CLIENT FedEx UPS MAIL COURIER 30388 Composite SHIPMENT METHOD VIA VIA Crab OTHER 3.22 940 Hammon TIME GREYHOUND 8 Atlanta SAMPLED RECEIVED BY 3-11-14 SIGNATIME 3.12-14 DATE OUT FAX Z DATE/TIME 3-22-14/1400 Brown & Galdwell are short SPECIAL INSTRUCTIONS/COMMENTS:

Be Hold times are significant to the state of the s SAMPLE ID 一つのと (SAMPLED BY *VELINQUISHED BY* 282 1304 OMPAN HONE 10 13 0

SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice

H+1 = Hydrochloric acid + ice 1 = 1ce only

PRESERVATIVE CODES:

O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL Client Sample ID: 14081-TW-17

Project Name: MacGregor Golf Collection Date: 3/22/2014 11:00:00 AM

Lab ID: 1403K50-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	0.0140	0.0100		mg/L	R263845	1	03/23/2014 09:30	AB
Chromium, Hexavalent	0.102	0.0100		mg/L	R263845	1	03/23/2014 09:30	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	0.116	0.0100		mg/L	188682	1	03/23/2014 11:47	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14081-TW-15

Project Name: MacGregor Golf Collection Date: 3/22/2014 12:50:00 PM

Lab ID: 1403K50-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263845	1	03/23/2014 09:30	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263845	1	03/23/2014 09:30	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	188682	1	03/23/2014 11:50	TA

Date:

24-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown & Caldwell	P	Work Order Number	1403KSD
Checklist completed by Signature Date	2/13		
Carrier name: FedEx UPS Courier Client US	S Mail Other	r	
Shipping container/cooler in good condition?	Yes '	No _ Not Present	
Custody seals intact on shipping container/cooler?	Yes	No Not Present	
Custody seals intact on sample bottles?	Yes	No _ Not Present	
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes	No	
Cooler #1 4.3° Cooler #2 Cooler #3	_ Cooler #4 _	Cooler#5	Cooler #6
Chain of custody present?	Yes _	No	
Chain of custody signed when relinquished and received?	Yes _	No	
Chain of custody agrees with sample labels?	Yes _	No	
Samples in proper container/bottle?	Yes	No No	
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No _	
All samples received within holding time?	Yes		
		No	
Was TAT marked on the COC?	Yes _	No _	
Proceed with Standard TAT as per project history?	Yes _	No _ Not Appli	
Water - VOA vials have zero headspace? No VOA vials s	ubmitted	Yes No _	_
Water - pH acceptable upon receipt?	Yes	No _ Not Appli	cable
Adjusted?	Che	ecked by	
Sample Condition: Good Other(Explain)			use *
(For diffusive samples or AIHA lead) Is a known blank inclu	ided? Yes	s No	

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403K50

Dates Report

Date: 24-Mar-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403K50-001A	14081-TW-17	3/22/2014 11:00:00AM	Groundwater	TOTAL METALS BY ICP		03/23/2014	03/23/2014
1403K50-001B	14081-TW-17	3/22/2014 11:00:00AM	Groundwater	Hexavalent Chromium			03/23/2014
1403K50-002A	14081-TW-15	3/22/2014 12:50:00PM	Groundwater	TOTAL METALS BY ICP		03/23/2014	03/23/2014
1403K50-002B	14081-TW-15	3/22/2014 12:50:00PM	Groundwater	Hexavalent Chromium			03/23/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403K50

ANALYTICAL QC SUMMARY REPORT

BatchID: 188682

Date:

24-Mar-14

Sample ID: MB-188682 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188682		Date: 03/2 ysis Date: 03/2	22/2014	Run No: Sea No:	263844 5551431
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC		High Limit	RPD Ref Val	%RPD		Limit Oual
Tillaryte	Result	KI I EIIIII	51 K value	STIC RCT var	70KLC	Low Limit	Trigii Liinit	KI D KCI Vai	/0Kt D	IG D	Ellilit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188682	Client ID:				Uni	ts: mg/L	Prep	Date: 03/2	22/2014	Run No:	263844
SampleType: LCS	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 188682	Anal	ysis Date: 03/2	22/2014	Seq No:	5551430
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	0.9917	0.0100	1.000		99.2	80	120				
Sample ID: 1403J85-001AMS	Client ID:				Uni	ts: mg/L	Prep	Date: 03/2	22/2014	Run No:	263844
SampleType: MS	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 188682	Anal	ysis Date: 03/2	22/2014	Seq No:	5551435
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.490	0.0100	1.000	0.5866	90.3	75	125				
Sample ID: 1403J85-001AMSD	Client ID:				Uni	ts: mg/L	Prep	Date: 03/2	22/2014	Run No:	263844
SampleType: MSD	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 188682	Anal	ysis Date: 03/2	22/2014	Seq No:	5551436
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.491	0.0100	1.000	0.5866	90.4	75	125	1.490	0.091	2	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

MacGregor Golf **Project Name:**

Workorder: 1403K50

ANALYTICAL QC SUMMARY REPORT

BatchID: R263845

Date:

24-Mar-14

Sample ID: MB-R263845	Client ID:				Uni	its: mg/L	Pre	p Date:		Run No: 263845
SampleType: MBLK	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26384	5 Ana	alysis Date: 03/23	3/2014	Seq No: 5551458
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD Limit Qua
Chromium, Hexavalent	BRL	0.0100								
Sample ID: LCS-R263845	Client ID:				Uni	its: mg/L	Pre	p Date:		Run No: 263845
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26384	5 Ana	alysis Date: 03/23	3/2014	Seq No: 5551459
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qua
Chromium, Hexavalent	0.4755	0.0100	0.5000		95.1	90	110			
Sample ID: 1403K50-002BMS	Client ID:	14081-TW-15			Uni	its: mg/L	Pre	p Date:		Run No: 263845
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26384	5 Ana	alysis Date: 03/23	3/2014	Seq No: 5551462
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qua
Chromium, Hexavalent	0.4819	0.0100	0.5000		96.4	85	115			
Sample ID: 1403K50-002BMSD	Client ID:	14081-TW-15			Uni	its: mg/L	Pre	p Date:		Run No: 263845
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	chID: R26384	5 Ana	alysis Date: 03/23	3/2014	Seq No: 5551463
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD Limit Qua
Chromium, Hexavalent	0.4766	0.0100	0.5000		95.3	85	115	0.4819	1.11	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 25, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403F09

Analytical Environmental Services, Inc. received 1 samples on 3/18/2014 10:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

Work Order: 1403709

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Page 2 of 7

TO ON GARRILLES.		SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (B	SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMP MATRIX CODES: A = Air GW = Groundwater SE = Sedim
DATA PACKAGE: I	PO#:	CONSIDERED RECEIVED THE NEXT RIGINESS DAY IS THOU	SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE
STATE PROGRAM (if any): E-mail Y N; Fax?		UPS MAIL COURIER	Hex Cr.
O Other	INVOICE TO: (IF DIFFERENT FROM ABOVE)	T / VIA:	Short hold time on
	SEND REPORT TO: STONES is brown cold. Com		SDECTA A CHEODY CONTROL OF THE STATE OF THE
O 2 Business Day Rush	KI bany 63		
Turnaround Time Request Standard 5 Rusiness Days	PROJECT#: \(\) SITE ADDRESS:	1 PE	
Total # of Containers	MALARGO	Jan 85 3118/14 1015	Brian 3-17-14/ 1330
RECEIPT	PROJECT INFORMATION	RECEIVED BY DATE/TIME	RELINQUISHED BY DATE/TIME
			13
			12
			11
			10
			9
			8
			7
			6
			5
			4
THE PARTY OF THE P			
			2
	X X	8-17-14 1630 X	14076-EB
REMARKS	AINEW	Matr (See	
CONTRACT	PRESERVATION (See codes)	posite ix codes	# SAMPLE ID
	Tota	;)	Į
orders, etc.		SECULANDIS	SAMPLED BY CON STELL
your results, place bottle	Hex	FAX:	PHONE:
www.aesatlanta.com		47/ata 64 50368	
Visit our website	ANALYSIS REQUESTED	7.5.2	Brown & Caldwell
			CCMPANY

7

S

PRESER VATIVE CODES: H+1 = Hydrockloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

O = Other (specify) NA = None
White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL Client Sample ID: 14076-EB

Project Name: MacGregor Golf Collection Date: 3/17/2014 4:30:00 PM

Lab ID: 1403F09-001 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263592	1	03/18/2014 13:45	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263592	1	03/18/2014 13:45	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	188530	1	03/20/2014 14:14	JL

Date:

25-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown & Caldwell		Work Order Number 1403F0 9
Client Brun & Caldwell Checklist completed by Am B Signature Date	18114	· · · · · · · · · · · · · · · · · · ·
Carrier name: FedExUPS Courier Client US	S Mail Other	rr
Shipping container/cooler in good condition?	Yes _	No Not Present
Custody seals intact on shipping container/cooler?	Yes /	No Not Present
Custody seals intact on sample bottles?	Yes _	No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes	No
Cooler #1 Cooler #2 Cooler #3	Cooler #4 _	Cooler#5 Cooler #6
Chain of custody present?	Yes _	
Chain of custody signed when relinquished and received?	Yes 🖊	No
Chain of custody agrees with sample labels?	Yes _	No
Samples in proper container/bottle?	Yes 🖊	No
Sample containers intact?	Yes 🖊	No
Sufficient sample volume for indicated test?	Yes 🖊	No
All samples received within holding time?	Yes /	No
Was TAT marked on the COC?	Yes 🖊	No
Proceed with Standard TAT as per project history?	Yes	No Not Applicable
Water - VOA vials have zero headspace? No VOA vials s	ubmitted	Yes No
Water - pH acceptable upon receipt?	Yes _	No Not Applicable
		ecked by <u>JG</u>
Sample Condition: Good Other(Explain) (For diffusive samples or AIHA lead) Is a known blank inclu		
(For diffusive samples or AIHA lead) Is a known blank inclu	ided? Yes	s No <u>/</u>

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403F09

Dates Report

Date: 25-Mar-14

Lab Sample ID Client Sample ID Prep Date **Analysis Date Collection Date** Matrix **Test Name TCLP Date** 1403F09-001A 14076-EB Aqueous TOTAL METALS BY ICP 03/19/2014 03/20/2014 3/17/2014 4:30:00PM 1403F09-001B 14076-EB Hexavalent Chromium 03/18/2014 3/17/2014 4:30:00PM Aqueous

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403F09

ANALYTICAL QC SUMMARY REPORT

BatchID: 188530

Date:

25-Mar-14

Sample ID: MB-188530 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188530		Date: 0		Run No: Seq No:	263712 5548118
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188530 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188530			03/19/2014 03/20/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	1.023	0.0100	1.000		102	80	120				
Sample ID: 1403G09-001GMS SampleType: MS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188530		Date: 0		Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	1.028	0.0100	1.000		103	75	125				
Sample ID: 1403G09-001GMSD SampleType: MSD	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188530		Date: 0		Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	1.029	0.0100	1.000		103	75	125	1.028	0.113	2	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403F09

ANALYTICAL QC SUMMARY REPORT

BatchID: R263592

Date:

25-Mar-14

Sample ID: MB-R263592 SampleType: MBLK	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	ts: mg/L chID: R26359 2		p Date: alysis Date: 03/18	/2014	Run No: 263592 Seq No: 5545443
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chromium, Hexavalent	BRL	0.0100								
Sample ID: LCS-R263592 SampleType: LCS	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	ts: mg/L chID: R26359 2		p Date: alysis Date: 03/18	/2014	Run No: 263592 Seq No: 5545444
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chromium, Hexavalent	0.4797	0.0100	0.5000		95.9	90	110			
Sample ID: 1403F09-001BMS SampleType: MS		14076-EB Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26359 2		p Date: alysis Date: 03/18	/2014	Run No: 263592 Seq No: 5545449
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chromium, Hexavalent	0.4760	0.0100	0.5000		95.2	85	115			
Sample ID: 1403F09-001BMSD SampleType: MSD		14076-EB Hexavalent Chromium in	Water SW719	96A	Uni Bat	ts: mg/L chID: R26359 2		p Date: alysis Date: 03/18	/2014	Run No: 263592 Seq No: 5545451
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chromium, Hexavalent	0.4723	0.0100	0.5000		94.5	85	115	0.4760	0.780	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 26, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403K51

Analytical Environmental Services, Inc. received 3 samples on 3/24/2014 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Taralesback

CHAIN OF CUSTODY

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188 ANALYTICAL ENVIRONMENTAL SERVICES, INC 3080 Presidential Drive, Atlanta GA 30340-3704

Work Order: 1403K51 ō, Page Date: 3-23-14

No # of Containers 9 d Same Day Rush (auth req.) your results, place bottle to check on the status of www.aesatlanta.com Tumaround Time Request Standard 5 Business Days Next Business Day Rush Visit our website 2 Business Day Rush Fotal # of Containers orders, etc. REMARKS Other 00000 SSOMES (4 Drumceld, com PROJECT INFORMATION ANALYSIS REQUESTED PRESERVATION (See codes) (IF DIFFERENT FROM ABOVE) *4*3€ PROJECT # 145096 SEND REPORT TO: A Lbang Macgregol PROJECT NAME: SITE ADDRESS: INVOICE TO: 1040T MOAD INTOT 4 E, × 990 Hammond Or str you <u>3</u>ら Matrix (See codes) 3 3 A+lonta 6A 30328 Composite SHIPMENT METHOD VIA: Grab 1220 ならん SAMPLED DATE/TIME RECEIVED BY 3.23-[4] 7-22-14 3-23-14 SIGNATIBEE 5 FAX: 1000 8-23-49 Brown & Caldwell SAMPLE ID TW-26 SPECIAL INSTRUCTIONS/COMMENTS: 7W-20 7W-18 2 X Block Xmys RELINQUISHED BY 1085 \<u>\</u> SAMPLED BY HOME 2 Ξ

LANDES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

OUOTE #:

CLIENT FedEx UPS MAIL COURIER

Z

GREYHOUND OTHER

PRESERVATIVE CODES: H+1 = Hydrochkoric acid + icc I = Icc only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice MATRIX CODES: A = Air

NA = None White Copy - Original; Yellow Copy - Client O = Other (specify)

STATE PROGRAM (if any):

DATA PACKAGE:

E-mail?

Page 2 of 9

Client: BROWN AND CALDWELL Client Sample ID: 14082-TW-18

Project Name: MacGregor Golf Collection Date: 3/23/2014 9:55:00 AM

Lab ID: 1403K51-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263895	1	03/24/2014 09:30	AB
Chromium, Hexavalent	0.0981	0.0100		mg/L	R263895	1	03/24/2014 09:30	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.107	0.0100		mg/L	188229	1	03/24/2014 14:30	JL

Date:

26-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14082-TW-20

Project Name: MacGregor Golf Collection Date: 3/23/2014 11:05:00 AM

Lab ID: 1403K51-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	0.0131	0.0100		mg/L	R263895	1	03/24/2014 09:30	AB
Chromium, Hexavalent	0.185	0.0100		mg/L	R263895	1	03/24/2014 09:30	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.199	0.0100		mg/L	188229	1	03/24/2014 14:49	JL

Date:

26-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14082-TW-25

Project Name: MacGregor Golf Collection Date: 3/23/2014 12:20:00 PM

Lab ID: 1403K51-003 Matrix: Groundwater

Analyses	Result	Reporting Limit Qu	al Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	96A						
Chromium as Cr+3	0.0110	0.0100	mg/L	R263895	1	03/24/2014 09:30	AB
Chromium, Hexavalent	0.0753	0.0100	mg/L	R263895	1	03/24/2014 09:30	AB
METALS, TOTAL SW6010C			(SW	/3010A)			
Chromium	0.0863	0.0100	mg/L	188229	1	03/24/2014 14:52	JL

Date:

26-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Orde	er Number 1403K57
Checklist completed by Signature Date			
Carrier name: FedEx UPS Courier Client U	S Mail Othe	r	
Shipping container/cooler in good condition?	Yes 🖊	No	Not Present
Custody seals intact on shipping container/cooler?	Yes _	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes Z	No _	
Cooler #1 3.1 Cooler #2 Cooler #3	Cooler #4	Co	oler#5 Cooler #6
Chain of custody present?	Yes 🖊	No _	
Chain of custody signed when relinquished and received?	Yes 🖊	No	
Chain of custody agrees with sample labels?	Yes 🖊	No	
Samples in proper container/bottle?	Yes _	No	
Sample containers intact?	Yes 🖊	No	
Sufficient sample volume for indicated test?	Yes 🖊	No	
All samples received within holding time?	Yes 🖊	No	
Was TAT marked on the COC?	Yes <u>/</u>	No	
Proceed with Standard TAT as per project history?	Yes	No	Not Applicable /
Water - VOA vials have zero headspace? No VOA vials su	ıbmitted 🗾	Yes	No
Water - pH acceptable upon receipt?	Yes 🗹	No	Not Applicable
Adjusted?	Che	cked by 💯	3
Sample Condition: Good / Other(Explain)			100 to 10
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes		No <u>/</u>

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403K51

Dates Report

Date: 26-Mar-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403K51-001A	14082-TW-18	3/23/2014 9:55:00AM	Groundwater	TOTAL METALS BY ICP		03/24/2014	03/24/2014
1403K51-001B	14082-TW-18	3/23/2014 9:55:00AM	Groundwater	Hexavalent Chromium			03/24/2014
1403K51-002A	14082-TW-20	3/23/2014 11:05:00AM	Groundwater	TOTAL METALS BY ICP		03/24/2014	03/24/2014
1403K51-002B	14082-TW-20	3/23/2014 11:05:00AM	Groundwater	Hexavalent Chromium			03/24/2014
1403K51-003A	14082-TW-25	3/23/2014 12:20:00PM	Groundwater	TOTAL METALS BY ICP		03/24/2014	03/24/2014
1403K51-003B	14082-TW-25	3/23/2014 12:20:00PM	Groundwater	Hexavalent Chromium			03/24/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403K51

ANALYTICAL QC SUMMARY REPORT

BatchID: 188229

Date:

26-Mar-14

Sample ID: MB-188229 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188229		Date:	03/24/2014 03/24/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC		High Limit	RPD Ref		-	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188229 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188229		Date:	03/24/2014 03/24/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD	Limit Qual
Chromium	1.018	0.0100	1.000		102	80	120				
Sample ID: 1403K51-001AMS SampleType: MS		14082-TW-18 METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188229		Date:	03/24/2014 03/24/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD	Limit Qual
Chromium	1.076	0.0100	1.000	0.1070	96.9	75	125				
Sample ID: 1403K51-001AMSD SampleType: MSD	Client ID: TestCode:	14082-TW-18 METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188229		Date:	03/24/2014 03/24/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD	Limit Qual
Chromium	1.064	0.0100	1.000	0.1070	95.7	75	125	1.076	1.06	2	0

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403K51

ANALYTICAL QC SUMMARY REPORT

BatchID: R263895

Date:

26-Mar-14

Sample ID: MB-R263895	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 263895	
SampleType: MBLK	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26389	5 Ana	alysis Date: 03/24	/2014	Seq No: 5552637	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD Limit Q	ual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R263895	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 263895	
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26389	5 Ana	alysis Date: 03/24	/2014	Seq No: 5552638	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD Limit Q	ual
Chromium, Hexavalent	0.4755	0.0100	0.5000		95.1	90	110				
Sample ID: 1403K51-001BMS	Client ID:	14082-TW-18			Un	its: mg/L	Pre	p Date:		Run No: 263895	
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26389	5 Ana	alysis Date: 03/24	/2014	Seq No: 5552646	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD Limit Q	ual
Chromium, Hexavalent	0.5846	0.0100	0.5000	0.09810	97.3	85	115				
Sample ID: 1403K51-001BMSD	Client ID:	14082-TW-18			Un	its: mg/L	Pre	p Date:		Run No: 263895	
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26389	5 Ana	alysis Date: 03/24	/2014	Seq No: 5552650	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD Limit Q	ual
Chromium, Hexavalent	0.5910	0.0100	0.5000	0.09810	98.6	85	115	0.5846	1.09	20	

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 26, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor

Dear Sarah Jones: Order No: 1403L28

Analytical Environmental Services, Inc. received 2 samples on 3/25/2014 10:05:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Taralesback

ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 1403638 Date: 5-24-14 Page

Fax? Y(N) No # of Containers 1 Same Day Rush (auth req.) your results, place bottle to check on the status of www.aesatlanta.com Tumaround Time Request Standard 5 Business Days Next Business Day Rush SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. 2 Business Day Rush Visit our website Total # of Containers RECEIPT orders, etc. STATE PROGRAM (if any): REMARKS DATA PACKAGE: E-mail? (Y)N; Other ооо*р* 0 SEND REPORT to STONES & brown cald. Com ANALYSIS REQUESTED PROJECT INFORMATION PRESERVATION (See codes) IF DIFFERENT FROM ABOVE) Macgrege, 145096 \$ 4) pany ROJECT NAME SITE ADDRESS: INVOICE TO: QUOTE #: 12401 12401 17401 5 Ecel DATE/TIME 10.05 (See codes) 3 3 990 Hampond Or sk 400 Matrix CLIENT (FedEx) UPS MAIL COURIER 30328 Somposite SHIPMENT METHOD VIA: VIA: Grab GREYHOUND OTHER Atlanta GA TIME 1300 36 SAMPLED RECEIVED BY 3-24-14 3-24-14 DATE SIGNAT OUT FAX: Z DATE/TIME 3-24-14/1430 Braun & Caldwell SAMPLE ID 12-31 SPECIAL INSTRUCTIONS/COMMENTS: 405- TW-23 Short hold times SAMPLED BY: 70x (4083 **ELINQUISHED BY** 5 HONE 01 20 6 11 12 14 13

GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Water Water MATRIX CODES: A = Air PRESERVATIVE CODES:

O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL Client Sample ID: 14083-TW-23

Project Name: MacGregor Collection Date: 3/24/2014 2:55:00 PM

Lab ID: 1403L28-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263986	1	03/25/2014 10:45	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R263986	1	03/25/2014 10:45	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	188734	1	03/25/2014 16:41	JL

Date:

26-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14083-TW-24

Project Name: MacGregor Collection Date: 3/24/2014 5:00:00 PM

Lab ID: 1403L28-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R263986	1	03/25/2014 10:45	AB
Chromium, Hexavalent	0.0125	0.0100		mg/L	R263986	1	03/25/2014 10:45	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0205	0.0100		mg/L	188734	1	03/25/2014 16:23	JL

Date:

26-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Order	Number	1403126
Checklist completed by African Signature S/2	125/IU 1			
Carrier name: FedEx UPS Courier Client US	S Mail Other		_	
Shipping container/cooler in good condition?	Yes .	No	Not Present	
Custody seals intact on shipping container/cooler?			Not Present	
Custody seals intact on sample bottles?	Yes 🛂	No	Not Present	-
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes 🖊	No		
Cooler #1 3.2° Cooler #2 Cooler #3	Cooler #4	Coc	oler#5	Cooler #6
Chain of custody present?	Yes 🖊	No _		
Chain of custody signed when relinquished and received?	Yes 👤	No		
Chain of custody agrees with sample labels?	Yes 👤	No		
Samples in proper container/bottle?	Yes 👤	No		
Sample containers intact?	Yes _	No		
Sufficient sample volume for indicated test?	Yes 👤	No		
All samples received within holding time?	Yes	No		
Was TAT marked on the COC?	Yes V	No _		,
Proceed with Standard TAT as per project history?	Yes	No	Not Applicabl	e
Water - VOA vials have zero headspace? No VOA vials su	ıbmitted 🗾	Yes _	No	
Water - pH acceptable upon receipt?	Yes _	No _	Not Applicabl	e
Adjusted?	Chec	cked by 4	GW	
Sample Condition: Good Other(Explain)				_
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes	N	No V	

See Case Narrative for resolution of the Non-Conformance.

 $\verb|L|Quality Assurance| Checklists Procedures Sign-Off Templates| Checklists Sample Receipt Checklist Sample Receipt Checklist Sample Receipt Checklist Sample Receipt Checkl$

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Lab Order: 1403L28

Dates Report

Date: 26-Mar-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403L28-001A	14083-TW-23	3/24/2014 2:55:00PM	Groundwater	TOTAL METALS BY ICP		03/25/2014	03/25/2014
1403L28-001B	14083-TW-23	3/24/2014 2:55:00PM	Groundwater	Hexavalent Chromium			03/25/2014
1403L28-002A	14083-TW-24	3/24/2014 5:00:00PM	Groundwater	TOTAL METALS BY ICP		03/25/2014	03/25/2014
1403L28-002B	14083-TW-24	3/24/2014 5:00:00PM	Groundwater	Hexavalent Chromium			03/25/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Workorder: 1403L28

ANALYTICAL QC SUMMARY REPORT

Date:

26-Mar-14

BatchID: 188734

Sample ID: MB-188734	Client ID:				Uni				03/25/2014	Run No:	
SampleType: MBLK	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 188734	An	alysis Date: 0	03/25/2014	Seq No:	5556147
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188734	Client ID:				Uni	ts: mg/L	Pre	p Date: 0	03/25/2014	Run No:	264039
SampleType: LCS	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 188734	An	alysis Date: 0	03/25/2014	Seq No:	5556141
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	1.051	0.0100	1.000		105	80	120				
Sample ID: 1403L28-002AMS	Client ID:	14083-TW-24			Uni	ts: mg/L	Pre	p Date: 0	03/25/2014	Run No:	264039
SampleType: MS	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 188734	An	alysis Date: 0	03/25/2014	Seq No:	5556158
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	1.041	0.0100	1.000	0.02054	102	75	125				
Sample ID: 1403L28-002AMSD	Client ID:	14083-TW-24			Uni	ts: mg/L	Pre	p Date: 0	03/25/2014	Run No:	264039
SampleType: MSD	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 188734	An	alysis Date: 0	03/25/2014	Seq No:	5556164
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD	Limit Qual
Chromium	1.042	0.0100	1.000	0.02054	102	75	125	1.041	0.044	2	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor **Workorder:** 1403L28

ANALYTICAL QC SUMMARY REPORT

BatchID: R263986

Date:

26-Mar-14

Sample ID: MB-R263986	Client ID:	Hexavalent Chromium in	Water SW710	064	Uni			p Date:	7/2014	Run No:	
SampleType: MBLK	resicode.	Ticzavaicht Chromium in	water 50071.	, or	Dat	chID: R26398 6	0 Alla	alysis Date: 03/25	5/2014	seq No.	5554757
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R263986	Client ID:				Uni	its: mg/L	Pre	p Date:		Run No:	263986
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW719	96A	Bat	chID: R26398 6	6 Ana	alysis Date: 03/25	5/2014	Seq No:	5554758
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPE	Limit Qual
Chromium, Hexavalent	0.4771	0.0100	0.5000		95.4	90	110				
Sample ID: 1403L23-001DMS	Client ID:				Uni	its: mg/L	Pre	p Date:		Run No:	263986
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW719	96A	Bat	chID: R26398 6	6 Ana	alysis Date: 03/25	5/2014	Seq No:	5554794
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPE	Limit Qual
Chromium, Hexavalent	2.380	0.0500	2.500		95.2	85	115				
Sample ID: 1403L23-001DMSD	Client ID:				Uni	its: mg/L	Pre	p Date:		Run No:	263986
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW719	96A	Bat	chID: R26398 6	6 Ana	alysis Date: 03/25	5/2014	Seq No:	5554797
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD) RPD	Limit Qual
Chromium, Hexavalent	2.383	0.0500	2.500		95.3	85	115	2.380	0.126	5 2	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 27, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403N01

Analytical Environmental Services, Inc. received 4 samples on 3/26/2014 2:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

AES OMPANY

Work Order: MO3.00

CHAIN OF CUSTODY

Date: 3-1514

Page

No # of Containers >1 your results, place bottle to check on the status of www.aesatlanta.com Same Day Rush (auth req.) Standard 5 Business Days Tumaround Time Request Next Business Day Rush Visit our website 2 Business Day Rush orders, etc. Fotal # of Containers Fax RECEIPT REMARKS STATE PROGRAM (if any): Other DATA PACKAGE E-mail: N. 00 0 S.Jones G. bruncald. com ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION (IF DIFFERENT FROM ABOVE) ROJECT # 145 096 Macajego Al Dany SEND REPORT TO: PROJECT NAME SITE ADDRESS: NVOICE TO: 47 12401 QUOTE #: 104 DATE/TIME 30 (See codes) 3720 Matrix 32808 CLIENT (Fedex) UPS MAIL COURIER Composite SHIPMENT METHOD 990 Homman D 64 VIA VIA Grab OTHER 0925 TIME 4+19+9 436 2 GREYHOUND SAMPLED SIGNATURE RECEIVED BY -15-14 DATE DOCT N d DATE/TIME Brown & Caldwell 3-25-14 Tw-30 SAMPLE ID E. T2-1 SPECIAL INSTRUCTIONS/COMMENTS: Short hold times Tw-26 nsoh 1080 100/11 RELINQUISHED BY Bila SAMPLED BY 7: 01 12 13 7

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water MATRIX CODES. A - Air

0 = Other (specity) NA = None White Copy - Original; Yellow Copy - Client

PRESERVATIVE CODES H+1 = Hydrochloric acid + ice 1 = 1ce only N = Nitric acid - ice S/M+1 = Sodium Bisultate/Methanol + ice

Client: BROWN AND CALDWELL

Project: MacGregor Golf Case Narrative

Date:

27-Mar-14

Lab ID: 1403N01

Proceed with Hex Cr out of hold samples per SJ 3/26/14

Client: BROWN AND CALDWELL Client Sample ID: 14084-TW-26

Project Name: MacGregor Golf Collection Date: 3/25/2014 9:25:00 AM

Lab ID: 1403N01-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	6A							
Chromium as Cr+3	0.0149	0.0100	Н	mg/L	R264098	1	03/26/2014 14:35	AB
Chromium, Hexavalent	0.0683	0.0100	Н	mg/L	R264098	1	03/26/2014 14:35	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	0.0832	0.0100		mg/L	188780	1	03/27/2014 10:06	JL

Date:

27-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14084- TW-27

Project Name: MacGregor Golf Collection Date: 3/25/2014 11:10:00 AM

Lab ID: 1403N01-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0217	0.0100	Н	mg/L	R264098	1	03/26/2014 14:35	AB
Chromium, Hexavalent	0.147	0.0100	Н	mg/L	R264098	1	03/26/2014 14:35	AB
METALS, TOTAL SW6010C				(SV	V3010A)			
Chromium	0.168	0.0100		mg/L	188780	1	03/27/2014 10:13	JL

Date:

27-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14084- TW-30

Project Name: MacGregor Golf Collection Date: 3/25/2014 2:35:00 PM

Lab ID: 1403N01-003 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	96A							
Chromium as Cr+3	0.0165	0.0100		mg/L	R264098	1	03/26/2014 14:35	AB
Chromium, Hexavalent	0.0471	0.0100		mg/L	R264098	1	03/26/2014 14:35	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0636	0.0100		mg/L	188780	1	03/27/2014 10:16	JL

Date:

27-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14084- TW-28

Project Name: MacGregor Golf Collection Date: 3/25/2014 4:55:00 PM

Lab ID: 1403N01-004 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0150	0.0100		mg/L	R264098	1	03/26/2014 14:35	AB
Chromium, Hexavalent	0.0236	0.0100		mg/L	R264098	1	03/26/2014 14:35	AB
METALS, TOTAL SW6010C		(SW3010A)						
Chromium	0.0386	0.0100		mg/L	188780	1	03/27/2014 10:20	JL

Date:

27-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown P Caldwell		Work Order Num	ber 1403NO1			
1.1	3.26.14					
Carrier name: FedEx / UPS _ Courier _ Client _ US	S Mail Other	·				
Shipping container/cooler in good condition?	Yes _	No Not]	Present			
Custody seals intact on shipping container/cooler?	Yes /	No Not	Present			
Custody seals intact on sample bottles?	Yes 🖊	No _ Not l	Present			
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes /	No				
Cooler #1 Cooler #2 Cooler #3	_ Cooler #4 _	Cooler#5	Cooler #6			
Chain of custody present?	Yes 🖊	No				
Chain of custody signed when relinquished and received?	Yes _/	No _				
Chain of custody agrees with sample labels?	Yes _/	No _				
Samples in proper container/bottle?	Yes 🖊	No				
Sample containers intact?	Yes 🖊	No				
Sufficient sample volume for indicated test?	Yes _	No _				
All samples received within holding time?	Yes	No 🟒				
Was TAT marked on the COC?	Yes /	No _				
Proceed with Standard TAT as per project history?	Yes	No _ Not	Applicable			
Water - VOA vials have zero headspace? No VOA vials su	ubmitted/	Yes	No			
Water - pH acceptable upon receipt?	Yes 👱	No _ No	Applicable			
Adjusted?	Che	cked by	, 			
Sample Condition: Good / Other(Explain)						
(For diffusive samples or AIHA lead) Is a known blank included? Yes No /_						

See Case Narrative for resolution of the Non-Conformance.

 $\verb|L|Quality| Assurance| Checklists| Procedures Sign-Off Templates| Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Sample Receipt Checklists| Sample S$

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403N01

Dates Report

Date: 27-Mar-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1403N01-001A	14084-TW-26	3/25/2014 9:25:00AM	Groundwater	TOTAL METALS BY ICP		03/26/2014	03/27/2014
1403N01-001B	14084-TW-26	3/25/2014 9:25:00AM	Groundwater	Hexavalent Chromium			03/26/2014
1403N01-002A	14084- TW-27	3/25/2014 11:10:00AM	Groundwater	TOTAL METALS BY ICP		03/26/2014	03/27/2014
1403N01-002B	14084- TW-27	3/25/2014 11:10:00AM	Groundwater	Hexavalent Chromium			03/26/2014
1403N01-003A	14084- TW-30	3/25/2014 2:35:00PM	Groundwater	TOTAL METALS BY ICP		03/26/2014	03/27/2014
1403N01-003B	14084- TW-30	3/25/2014 2:35:00PM	Groundwater	Hexavalent Chromium			03/26/2014
1403N01-004A	14084- TW-28	3/25/2014 4:55:00PM	Groundwater	TOTAL METALS BY ICP		03/26/2014	03/27/2014
1403N01-004B	14084- TW-28	3/25/2014 4:55:00PM	Groundwater	Hexavalent Chromium			03/26/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403N01

ANALYTICAL QC SUMMARY REPORT

Date:

27-Mar-14

BatchID: 188780

Sample ID: MB-188780 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188780		p Date: alysis Date:	03/25/2014 03/26/2014	Run No: 2 Seq No: 3	-
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	`Val %RPD	RPD I	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188780 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188780		p Date: alysis Date:	03/25/2014 03/26/2014	Run No: 2 Seq No: 3	-
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD I	Limit Qual
Chromium	1.086	0.0100	1.000		109	80	120				
Sample ID: 1403K44-001BMS SampleType: MS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188780		p Date: alysis Date:	03/25/2014 03/26/2014	Run No: 2	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD I	Limit Qual
Chromium	1.069	0.0100	1.000		107	75	125				
Sample ID: 1403K44-001BMSD SampleType: MSD	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	its: mg/L chID: 188780		p Date: alysis Date:	03/25/2014 03/26/2014	Run No: 2	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD I	Limit Qual
Chromium	1.082	0.0100	1.000		108	75	125	1.069	1.21	20)

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403N01

ANALYTICAL QC SUMMARY REPORT

BatchID: R264098

Date:

27-Mar-14

Sample ID: MB-R264098 SampleType: MBLK	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26409		p Date: alysis Date: 03/26	5/2014	Run No: Seq No:	264098 5558088
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R264098 SampleType: LCS	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26409		p Date: alysis Date: 03/26	5/2014	Run No: Seq No:	264098 5558089
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4771	0.0100	0.5000		95.4	90	110				
Sample ID: 1403M27-048DMS SampleType: MS	Client ID: TestCode:	Hexavalent Chromium in	Water SW71	96A	Uni Bat	its: mg/L chID: R26409		p Date: alysis Date: 03/26	5/2014	Run No: Seq No:	264098 5558110
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4792	0.0100	0.5000		95.8	85	115				
Sample ID: 1403M27-048DMSD SampleType: MSD	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26409		p Date: alysis Date: 03/26	5/2014	Run No: Seq No:	264098 5558113
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4782	0.0100	0.5000		95.6	85	115	0.4792	0.209	2	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



March 27, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403N27

Analytical Environmental Services, Inc. received 1 samples on 3/26/2014 3:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Taralesback

CHAIN OF CUSTODY

ANAL YTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 1405N27

of Page Date: 3-26-14

No # of Containers N \geq your results, place bottle Same Day Rush (auth req.) to check on the status of www.aesatlanta.com Turnaround Time Request Standard 5 Business Days Next Business Day Rush Fax? YCN SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY, IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. Visit our website 2 Business Day Rush Total # of Containers orders, etc. RECEIPT REMARKS STATE PROGRAM (if any): DATA PACKAGE: Other E-mail? (S) N. 00000 SUTUNCOLL CAN ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION IF DIFFERENT FROM ABOVE) DONG Margieger SEND REPORT TO: PROJECT NAME SITE ADDRESS INVOICE TO: PROJECT # 124-1 5 QUOTE #: DATE/TIME (See codes) 3 3/24/14 3:40 XiTIsM UPS MAIL COURIER Composite SHIPMENT METHOD VIA. Grab OTHER CLIENT FedEx GREYHOUND 8 SAMPLED RECEIVED BY SIGNATURE 3-26-14 ADDRESS OUT FAX 2 DATE/TIME 1500 Brown & Cald well SAMPLE ID SPECIAL INSTRUCTIONS/COMMENTS: Shor hald time 3.26 14 SAMPLED BY it 7 10 13 13 7 20 0 11

GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water MATRIX CODES. A = Air PRESERVATIVE CODES:

O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL Client Sample ID: 14085-TW-29

Project Name: MacGregor Golf Collection Date: 3/26/2014 11:00:00 AM

Lab ID: 1403N27-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	06A							
Chromium as Cr+3	BRL	0.0100		mg/L	R264180	1	03/27/2014 08:30	LW
Chromium, Hexavalent	BRL	0.0100		mg/L	R264180	1	03/27/2014 08:30	LW
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	188780	1	03/27/2014 10:24	JL

Date:

27-Mar-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown & Caldwell		Work Order	Number 1403N27
Checklist completed by Signature Date	<u>a14</u>		
Carrier name: FedEx UPS Courier Client US	S Mail Othe	r	_
Shipping container/cooler in good condition?	Yes _	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes _	No _	Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes \neq	No	
Cooler #1 3. Cooler #2 Cooler #3	_ Cooler #4 _	Coc	oler#5 Cooler #6
Chain of custody present?	Yes 🗹		
Chain of custody signed when relinquished and received?	Yes ∠	No	•
Chain of custody agrees with sample labels?	Yes 🖊	No	
Samples in proper container/bottle?	Yes _	No _	
Sample containers intact?	Yes _	No	
Sufficient sample volume for indicated test?	Yes 🖊	No	
All samples received within holding time?	Yes Z	No	
Was TAT marked on the COC?	Yes _	No	
Proceed with Standard TAT as per project history?	Yes	No	Not Applicable <u></u>
Water - VOA vials have zero headspace? No VOA vials su	ibmitted _	Yes	No
Water - pH acceptable upon receipt?	Yes \angle	No	Not Applicable
Adjusted?			
Sample Condition: Good Other(Explain)			and order a
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes	1	40 /

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1403N27

Dates Report

Date: 27-Mar-14

Lab Sample ID Client Sample ID Prep Date **Analysis Date Collection Date** Matrix **Test Name TCLP Date** 1403N27-001A 14085-TW-29 Groundwater TOTAL METALS BY ICP 03/26/2014 03/27/2014 3/26/2014 11:00:00AM 03/27/2014 1403N27-001B 14085-TW-29 3/26/2014 11:00:00AM Groundwater Hexavalent Chromium

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403N27

ANALYTICAL QC SUMMARY REPORT

BatchID: 188780

Date:

27-Mar-14

Sample ID: MB-188780 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188780		Date: 03/2 lysis Date: 03/2	5/2014 6/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-188780 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188780		Date: 03/2 lysis Date: 03/2	5/2014 6/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.086	0.0100	1.000		109	80	120				
Sample ID: 1403K44-001BMS SampleType: MS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188780		Date: 03/2 lysis Date: 03/2	5/2014 6/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.069	0.0100	1.000		107	75	125				
Sample ID: 1403K44-001BMSD SampleType: MSD	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bate	ts: mg/L chID: 188780		Date: 03/2 lysis Date: 03/2	5/2014 6/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.082	0.0100	1.000		108	75	125	1.069	1.21	2	0

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403N27

ANALYTICAL QC SUMMARY REPORT

BatchID: R264180

Date:

27-Mar-14

Sample ID: MB-R264180	Client ID:				Uni	ts: mg/L	Pre	p Date:		Run No:	264180
SampleType: MBLK	TestCode:	Hexavalent Chromium in	Water SW719	96A	Bat	chID: R26418 0	0 Ana	alysis Date: 03/2	6/2014	Seq No:	5560006
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD	Limit Qual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R264180	Client ID:				Uni	ts: mg/L	Pre	p Date:		Run No:	264180
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW719	96A	Bat	chID: R26418 0	0 Ana	alysis Date: 03/2	6/2014	Seq No:	5560007
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4803	0.0100	0.5000		96.1	90	110				
Sample ID: 1403N27-001BMS	Client ID:	14085-TW-29			Uni	ts: mg/L	Pre	p Date:		Run No:	264180
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW719	96A	Bat	chID: R26418 0	0 Ana	alysis Date: 03/2	7/2014	Seq No:	5560013
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4808	0.0100	0.5000		96.2	85	115				
Sample ID: 1403N27-001BMSD	Client ID:	14085-TW-29			Uni	ts: mg/L	Pre	p Date:		Run No:	264180
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW719	96A	Bat	chID: R26418 0	0 Ana	alysis Date: 03/2	7/2014	Seq No:	5560014
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPE	RPD	Limit Qual
Chromium, Hexavalent	0.4760	0.0100	0.5000		95.2	85	115	0.4808	1.00		20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



April 02, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1403N50

Analytical Environmental Services, Inc. received 3 samples on 3/26/2014 3:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Taralesback

ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 14(73/197)

Date:

ţ,

Page

No # of Containers to check on the status of your results, place bottle www.aesatlanta.com Yumaround Time Request Standard 5 Business Days Visit our website 2 Business Day Rush Fotal # of Containers orders, etc. REMARKS 14011 ANALYSIS REOUESTED PRESERVATION (See codes) PROJECT INFORMATION ar Oipgol PROJECT NAME: SITE ADDRESS: TCLIP Repols 990 Hammond Orive, Ste 400 (See codes) 0 Xinst√ix R 3/26/14 3:40 Atlanta, Ga 30338 TIME 305 1105 9011 1100 100 1100 108 049 1635 54.91 1635 $\widetilde{\mathbb{S}}$ SAMPLED ्रहेक 3-0,0-19 DATE/TIME RECEIVED BY 37.0% 3-15-14 DATE 3-2-41 11540 Brown & Caldwell SAMPLE ID 110 moll-1102-180h Sort-102-113 14085-Soy - 111 W-1) 14085 - Sod - 10 WI - DY 14085 - Seil - 100-17 14085 - Sail - 10w - D8 14084- Soil - 1100- Dio 19054-501 - 100, 1011 11 () ^n() ! - 110; - 180 h.l 1085 - Soil - 1021 - S80K 14086 - Soil - 10w- 1)9 14085-5011-110V-01 4085-501-10W-D 16 **VELINQUISHED-BY** -h80h AMPLEDBY HOME

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. W = Water (Blanks) DW = Drinking Water (Blanks) $O \approx Other$ (specify) WW = Waste WaterSAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. GW = Groundwater SE = Sediment SO = Soil SW = Surface Water MATRIX CODES: A = Air

QUOTE #;

CLIENT FedEx UPS MAIL COURIER

OTHER

GREYHOUND

O = Other (specify) NA = None
White Copy - Original; Yellow Copy - Client PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice

≥

DATA PACKAGE:

Fax? Y ∕Ø

E-mail? (📝 N;

STATE PROGRAM (if any):

Other

Same Day Rush (auth req.)

Next Business Day Rush

SEND REPORT TO: S E Janes a bruncalt, con

(IF DIFFERENT FROM ABOVE)

INVOICE TO:

SHIPMENT METHOD

....VIA: VIA

150

Z

4012 all compositos somples

Waste Characterization, No 03,

SPECIAL INSTRUCTIONS/COMMENTS:

CHAIN OF CUSTODY

ANALYTICAL ENVIRONMENTAL SERVICES, INC 3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

AES

Work Order: [4(03/1)57)

No # of Containers

to check on the status of your results, place bottle www.aesatlanta.com Same Day Rush (auth req.) Tumaround Time Request Standard 5 Business Days Next Business Day Rush Visit our website Fax? Y/N 2 Business Day Rush orders, etc. Total,# of Containers REMARKS STATE PROGRAM (if any): Other E-mail? (Y)/N; 그으로 0000 SEND REPORT TO: SEJONES (Abruncal), Com ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION Mac(stogol (IF DIFFERENT FROM ABOVE) PROJECT NAME SITE ADDRESS: INVOICE TO: ROJECT #: STOP W 1170 DATE/TIME latione R 3126/14 3:40p. Matrix (See codes) 990 (tammond Drwe, str 400 Š CLIENT Fedex UPS MAIL COURIER Composite SHIPMENT METHOD Atlanta, Ga 30828 Gusp VIA: TIME SIGNATURE II SIGNATURE IN SIGNA 9h2 069 0591 *9*5*9*] SAMPLED DATE/TIME RECEIVED BY 7-35-14 DATE OUT Z 270 SAMPLE 1D 5.26-14/ 1108/ Soll > 1107 - 1130/11 14084 - Sail - 1021 - DIG 14084 - Soil -110W- DIS 4084- Soil - (104-1015 4084-501-10V DIA Brown + Caldwell SPECIAL INSTRUCTIONS/COMMENTS: <u>| (2)</u> 1000 ELINQUISHED BY SAMPLED BY HONE

01

13

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES. A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

OTHER

GREFHOUND

O = Other (specify) NA = None
White Copy - Original; Yellow Copy - Client

2

Client: BROWN AND CALDWELL

Project: MacGregor Golf Case Narrative

Date:

2-Apr-14

Lab ID: 1403N50

 $14085\text{-}Soil\text{-}IDW\text{-}D7,\ 14084\text{-}Soil\text{-}IDW\text{-}D13,\ 14084\text{-}Soil\text{-}IDW\text{-}D19\ analyzed\ for\ TCLP\ metals\ at\ std\ turn\ per\ SJ\ 3/27/14$

Client:BROWN AND CALDWELLClient Sample ID:14085-SOIL-IDW-D7Project Name:MacGregor GolfCollection Date:3/26/2014 11:05:00 AM

Date:

2-Apr-14

Lab ID: 1403N50-006 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A				(SV	V7470A)			
Mercury	BRL	0.00400		mg/L	189041	1	04/01/2014 15:23	CG
ICP METALS, TCLP SW1311/6010C				(SV	V3010A)			
Arsenic	BRL	0.250		mg/L	189059	1	04/01/2014 15:31	JL
Barium	BRL	0.500		mg/L	189059	1	04/01/2014 15:31	JL
Cadmium	BRL	0.0250		mg/L	189059	1	04/01/2014 15:31	JL
Chromium	BRL	0.0500		mg/L	189059	1	04/01/2014 15:31	JL
Lead	BRL	0.0500		mg/L	189059	1	04/01/2014 15:31	JL
Selenium	BRL	0.100		mg/L	189059	1	04/01/2014 15:31	JL
Silver	BRL	0.0250		mg/L	189059	1	04/01/2014 15:31	JL

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client:BROWN AND CALDWELLClient Sample ID:14084-SOIL-IDW-D13Project Name:MacGregor GolfCollection Date:3/25/2014 4:35:00 PM

Date:

2-Apr-14

Lab ID: 1403N50-012 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A				(SW	77470A)			
Mercury	BRL	0.00400		mg/L	189041	1	04/01/2014 15:25	CG
ICP METALS, TCLP SW1311/6010C				(SW	/3010A)			
Arsenic	BRL	0.250		mg/L	189059	1	04/01/2014 15:36	JL
Barium	BRL	0.500		mg/L	189059	1	04/01/2014 15:36	JL
Cadmium	BRL	0.0250		mg/L	189059	1	04/01/2014 15:36	JL
Chromium	BRL	0.0500		mg/L	189059	1	04/01/2014 15:36	JL
Lead	BRL	0.0500		mg/L	189059	1	04/01/2014 15:36	JL
Selenium	BRL	0.100		mg/L	189059	1	04/01/2014 15:36	JL
Silver	BRL	0.0250		mg/L	189059	1	04/01/2014 15:36	JL

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client:BROWN AND CALDWELLClient Sample ID:14084-SOIL-IDW-D19Project Name:MacGregor GolfCollection Date:3/25/2014 4:50:00 PM

Date:

2-Apr-14

Lab ID: 1403N50-018 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A				(SV	V7470A)			
Mercury	BRL	0.00400		mg/L	189041	1	04/01/2014 15:27	CG
ICP METALS, TCLP SW1311/6010C				(SV	V3010A)			
Arsenic	BRL	0.250		mg/L	189059	1	04/01/2014 15:41	JL
Barium	BRL	0.500		mg/L	189059	1	04/01/2014 15:41	JL
Cadmium	BRL	0.0250		mg/L	189059	1	04/01/2014 15:41	JL
Chromium	BRL	0.0500		mg/L	189059	1	04/01/2014 15:41	JL
Lead	BRL	0.0500		mg/L	189059	1	04/01/2014 15:41	JL
Selenium	BRL	0.100		mg/L	189059	1	04/01/2014 15:41	JL
Silver	BRL	0.0250		mg/L	189059	1	04/01/2014 15:41	JL

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative NC Not confirmed

< Less than Result value

* Samples do not have to comply with the given range for certain parameters.

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Order	r Number	403 NG	0
Checklist completed by Styllon Mally Market Date	26/14				
Carrier name: FedEx UPS Courier Client US	S Mail Other	·			
Shipping container/cooler in good condition?	Yes 🖊	No	Not Present _		
Custody seals intact on shipping container/cooler?	Yes 1	No _	Not Present	_	
Custody seals intact on sample bottles?	Yes 🗸	No	Not Present _		
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ,	No _			
Cooler #1 3.2% Cooler #2 Cooler #3	_ Cooler #4 _	Coo	oler#5	Cooler #6	· · ·
Chain of custody present?	Yes	No _			
Chain of custody signed when relinquished and received?	Yes V	No			
Chain of custody agrees with sample labels?	Yes V	No	,		
Samples in proper container/bottle?	Yes 🗸	No _			
Sample containers intact?	Yes /	No _			
Sufficient sample volume for indicated test?	Yes V	No _			
All samples received within holding time?	Yes 1	No			
Was TAT marked on the COC?	Yes L	No _			
Proceed with Standard TAT as per project history?	Yes _	No	Not Applicable	le _/	
Water - VOA vials have zero headspace? No VOA vials su	/	Yes	No		- : : -
Water - pH acceptable upon receipt?	Yes _	No	Not Applicable	le _;/	
Adjusted? Sample Condition: Good Other(Explain) (For diffusive samples or AIHA lead) Is a known blank include	Checked? Yes	ked by			
See Case Narrative for resolution of the Non-Conformance		•			

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1403N50

ANALYTICAL QC SUMMARY REPORT

Date:

2-Apr-14

BatchID: 189041

Sample ID: MB-189041	Client ID:				Uni	ts: mg/L	Prep	Date: 04/01	1/2014	Run No:	264471
SampleType: MBLK	TestCode:	MERCURY, TCLP SW	1311/7470A		Bate	chID: 189041	Ana	lysis Date: 04/01	1/2014	Seq No:	5568172
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Mercury	BRL	0.00400									
Sample ID: LCS-189041	Client ID:				Uni	ts: mg/L	Prep	Date: 04/0 1	/2014	Run No:	264471
SampleType: LCS	TestCode:	MERCURY, TCLP SW	1311/7470A		Bate	chID: 189041	Ana	lysis Date: 04/0 1	1/2014	Seq No:	5568173
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Mercury	0.04216	0.00400	0.0400		105	85	115				
Sample ID: 1403Q68-002AMS	Client ID:				Uni	ts: mg/L	Prep	Date: 04/01	1/2014	Run No:	264471
SampleType: MS	TestCode:	MERCURY, TCLP SW	1311/7470A		Bate	chID: 189041	Ana	lysis Date: 04/01	1/2014	Seq No:	5568216
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Mercury	0.04411	0.00400	0.0400		110	80	120				
Sample ID: 1403Q68-002AMSD	Client ID:				Uni	ts: mg/L	Prep	Date: 04/01	1/2014	Run No:	264471
SampleType: MSD	TestCode:	MERCURY, TCLP SW	1311/7470A		Bate	chID: 189041	Ana	lysis Date: 04/0 1	1/2014	Seq No:	5568217
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Mercury	0.04419	0.00400	0.0400		110	80	120	0.04411	0.162	2	.0

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf **Workorder:** 1403N50

ANALYTICAL QC SUMMARY REPORT

Date: 2-Apr-14

BatchID: 189059

Sample ID: MB-189059 SampleType: MBLK	Client ID: TestCode:	ICP METALS, TCLP	SW1311/6010C		Un Bat	its: mg/L cchID: 189059		ep Date: nalysis Date:	04/01/2014 04/01/2014	Run No: 264522 Seq No: 5568389
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Arsenic	BRL	0.250								
Barium	BRL	0.500								
Cadmium	BRL	0.0250								
Chromium	BRL	0.0500								
Lead	BRL	0.0500								
Selenium	BRL	0.100								
Silver	BRL	0.0250								
Sample ID: MB-189059-2 SampleType: MBLK	Client ID: TestCode:	ICP METALS, TCLP	SW1311/6010C		Un Bat	its: mg/L cchID: 189059		ep Date: nalysis Date:	04/01/2014 04/01/2014	Run No: 264522 Seq No: 5568391
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Arsenic	BRL	0.250								
Barium	BRL	0.500								
Cadmium	BRL	0.0250								
Chromium	BRL	0.0500								
Lead	BRL	0.0500								
Selenium	BRL	0.100								
Silver	BRL	0.0250								
Sample ID: LCS-189059	Client ID:				Un	its: mg/L	Pr	ep Date:	04/01/2014	Run No: 264522
SampleType: LCS	TestCode:	ICP METALS, TCLP	SW1311/6010C		Bat	chID: 189059	Aı	nalysis Date:	04/01/2014	Seq No: 5568388
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Arsenic	4.915	0.250	5.000		98.3	85	115			
Barium	4.701	0.500	5.000		94.0	80	120			
Cadmium	4.780	0.0250	5.000		95.6	85	115			
Chromium	4.735	0.0500	5.000		94.7	85	115			
Qualifiers: > Greater than Resul	t value		< Less	than Result value			В	Analyte detected	in the associated method	blank
BRL Below reporting lir	mit		E Estim	ated (value above quantita	ation range)		Н	Holding times for	r preparation or analysis e	exceeded
J Estimated value d	etected below Reporting	Limit	N Analy	yte not NELAC certified			R	RPD outside lim	its due to matrix	
Rpt Lim Reporting Limit			S Spike	Recovery outside limits of	lue to matrix					

Client: BROWN AND CALDWELL

Workorder: 1403N50

Qualifiers:

BRL

Greater than Result value

Estimated value detected below Reporting Limit

Below reporting limit

Rpt Lim Reporting Limit

Project Name: MacGregor Golf

ANALYTICAL QC SUMMARY REPORT

BatchID: 189059

Date:

2-Apr-14

Sample ID: LCS-189059	Client ID:				Uni	_				Run No: 26452 2	2
SampleType: LCS	TestCode:	ICP METALS, TCLP	SW1311/6010C		Bat	chID: 189059	Ana	lysis Date: 04/0	1/2014	Seq No: 556838	88
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	4.656	0.0500	5.000		93.1	85	115				
Selenium	4.967	0.100	5.000		99.3	85	115				
Silver	0.4728	0.0250	0.5000		94.6	85	115				
Sample ID: 1403O63-001BMS	Client ID:				Uni	ts: mg/L	Prep	Date: 04/0	01/2014	Run No: 26452 2	2
SampleType: MS	TestCode:	ICP METALS, TCLP	SW1311/6010C		Bat	chID: 189059	Ana	lysis Date: 04/0	01/2014	Seq No: 556839	95
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	4.846	0.250	5.000		96.9	50	150				
Barium	4.942	0.500	5.000	0.3196	92.4	50	150				
Cadmium	4.769	0.0250	5.000	0.07523	93.9	50	150				
Chromium	4.660	0.0500	5.000		93.2	50	150				
Lead	4.785	0.0500	5.000	0.2102	91.5	50	150				
Selenium	4.910	0.100	5.000		98.2	50	150				
Silver	0.4661	0.0250	0.5000		93.2	50	150				
Sample ID: 1403O63-001BMSD	Client ID:				Uni	its: mg/L	Prep	Date: 04/ 0	1/2014	Run No: 26452 2	2
SampleType: MSD	TestCode:	ICP METALS, TCLP	SW1311/6010C		Bat	chID: 189059	Ana	lysis Date: 04/0	1/2014	Seq No: 556839	97
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qua
Arsenic	4.928	0.250	5.000		98.6	50	150	4.846	1.66	30	
Barium	5.010	0.500	5.000	0.3196	93.8	50	150	4.942	1.37	30	
Cadmium	4.855	0.0250	5.000	0.07523	95.6	50	150	4.769	1.79	30	
Chromium	4.729	0.0500	5.000		94.6	50	150	4.660	1.45	30	
Lead	4.845	0.0500	5.000	0.2102	92.7	50	150	4.785	1.26	30	
Selenium	5.005	0.100	5.000		100	50	150	4.910	1.92	30	
Silver	0.4713	0.0250	0.5000		94.3	50	150	0.4661	1.11	30	

Less than Result value

N Analyte not NELAC certified

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Page 11 of 11

B Analyte detected in the associated method blank

R RPD outside limits due to matrix

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



June 04, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1406096

Analytical Environmental Services, Inc. received 2 samples on 6/3/2014 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Taralesback

CHAIN OF CUSTODY

3080 Presidential Drive, Atlanta GA 30340-3704

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: /406096 of Date: 6-2-14

No # of Containers 2 Same Day Rush (auth req.) O 2 Business Day Rush
O Next Business Day Rush
Same Day Rush (auth req.) your results, place bottle to check on the status of Fax? Y/M Turnaround Time Request www.aesatlanta.com Standard 5 Business Days SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. Visit our website Total # of Containers RECEIPT orders, etc. STATE PROGRAM (if any): REMARKS DATA PACKAGE: S-mail? SEND REPORT TO: STOACE GY BY WAY COLD COM ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION (IF DIFFERENT FROM ABOVE) 5 Macbicy Albany PROJECT NAME: SITE ADDRESS: NVOICE TO: PROJECT # 1040 33 M NOTE # 240 DATE/TIME 39 990 Hammer 0, stylos (See codes) 6/3/14 10.25 3 Matrix CLIENT FedEx UPS MAIL COURIER GA 30328 Composite SHIPMENT METHOD VIA Grab OTHER TIME GREYHOUND Atlanta SAMPLED RECEIVED BY SIGNATURE 17-7 DATE OUT DATE/TIME 008/14/20 Bound Coldwell SAMPLE ID SPECIAL INSTRUCTIONS/COMMENTS hold tine Windy LELINQUISHED BY Srian APLED BY HONE 13 13 10

WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice SE = Sediment SO = Soil SW = Surface Water PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice | = Ice only GW = Groundwater A = Air

O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client

Client:BROWN AND CALDWELLClient Sample ID:14153-TW-42Project Name:MacGregor GolfCollection Date:6/2/2014 3:50:00 PMLab ID:1406096-001Matrix:Groundwater

Analyses	Result	Reporting Limit	ıal Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	96A						
Chromium as Cr+3	BRL	0.0100	mg/L	R268986	1	06/03/2014 13:15	AB
Chromium, Hexavalent	BRL	0.0100	mg/L	R268986	1	06/03/2014 13:15	AB
METALS, TOTAL SW6010C			(SW	/3010A)			
Chromium	BRL	0.0100	mg/L	191881	1	06/03/2014 17:28	JL

Date:

4-Jun-14

Qualifiers: * Va

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client:BROWN AND CALDWELLClient Sample ID:14153-TW-16Project Name:MacGregor GolfCollection Date:6/2/2014 5:35:00 PM

Lab ID: 1406096-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	96A							
Chromium as Cr+3	0.0175	0.0100		mg/L	R268986	1	06/03/2014 13:15	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R268986	1	06/03/2014 13:15	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0175	0.0100		mg/L	191881	1	06/03/2014 17:09	ЛL

Date:

4-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Order Number 1406896
Client Brown + Caldwell Checklist completed by Assub 6/3/17 Signature Date	te	
Carrier name: FedExUPS Courier Client U	JS Mail Oth	er
Shipping container/cooler in good condition?	Yes 🖊	No Not Present
Custody seals intact on shipping container/cooler?	Yes _	No Not Present
Custody seals intact on sample bottles?	Yes 🖊	No Not Present
Container/Temp Blank temperature in compliance? (4°C±2))* Yes _	No
Cooler #1 3.2 Cooler #2 Cooler #3	Cooler #4	Cooler#5 Cooler #6
Chain of custody present?	Yes _	No _
Chain of custody signed when relinquished and received?	Yes _	No
Chain of custody agrees with sample labels?	Yes 🖊	No
Samples in proper container/bottle?	Yes 🖊	No
Sample containers intact?	Yes _	No
Sufficient sample volume for indicated test?	Yes _	No
All samples received within holding time?	Yes 🖊	No
Was TAT marked on the COC?	Yes _	No
Proceed with Standard TAT as per project history?	Yes	No Not Applicable
Water - VOA vials have zero headspace? No VOA vials		
Water - pH acceptable upon receipt?	Yes 🗸	No Not Applicable
Adjusted?	C	hecked by <u>JB</u>
Sample Condition: Good Other(Explain)		
(For diffusive samples or AIHA lead) Is a known blank inc	luded? Y	es No

See Case Narrative for resolution of the Non-Conformance.

 $\verb|L|Quality| Assurance| Checklists| Procedures Sign-Off Templates| Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checkl$

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1406096

Dates Report

Date: 4-Jun-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1406096-001A	14153-TW-42	6/2/2014 3:50:00PM	Groundwater	TOTAL METALS BY ICP		06/03/2014	06/03/2014
1406096-001B	14153-TW-42	6/2/2014 3:50:00PM	Groundwater	Hexavalent Chromium			06/03/2014
1406096-002A	14153-TW-16	6/2/2014 5:35:00PM	Groundwater	TOTAL METALS BY ICP		06/03/2014	06/03/2014
1406096-002B	14153-TW-16	6/2/2014 5:35:00PM	Groundwater	Hexavalent Chromium			06/03/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1406096

ANALYTICAL QC SUMMARY REPORT

Date:

4-Jun-14

BatchID: 191881

Sample ID: MB-191881 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191881		Date: 00	6/03/2014 6/03/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC		High Limit	RPD Ref V		-	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-191881 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191881		Date: 00	6/03/2014 6/03/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
Chromium	1.031	0.0100	1.000		103	80	120				
Sample ID: 1406096-002AMS Sample Type: MS		14153-TW-16 METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191881		Date: 00	6/03/2014 6/03/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
Chromium	1.038	0.0100	1.000	0.01752	102	75	125				
Sample ID: 1406096-002AMSD SampleType: MSD		14153-TW-16 METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191881			6/03/2014 6/03/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	al %RPD	RPD	Limit Qual
Chromium	1.012	0.0100	1.000	0.01752	99.5	75	125	1.038	2.48	20)

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit S Spi

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1406096 ANALYTICAL QC SUMMARY REPORT

BatchID: R268986

Date:

4-Jun-14

Sample ID: MB-R268986 SampleType: MBLK	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26898 6		p Date: alysis Date: 06/03	/2014	Run No: Seq No:	268986 5673924
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R268986 SampleType: LCS	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26898 6		p Date: alysis Date: 06/03	/2014	Run No: Seq No:	268986 5673925
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4744	0.0100	0.5000		94.9	90	110				
Sample ID: 1406096-001BMS SampleType: MS		14153-TW-42 Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26898 6		p Date: alysis Date: 06/03	/2014	Run No: Seq No:	268986 5673928
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4707	0.0100	0.5000		94.1	85	115				
Sample ID: 1406096-001BMSD SampleType: MSD		14153-TW-42 Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26898 6		p Date: alysis Date: 06/03	/2014	Run No: Seq No:	268986 5673929
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium, Hexavalent	0.4648	0.0100	0.5000		93.0	85	115	0.4707	1.26	2	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



June 10, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1406217

Analytical Environmental Services, Inc. received 6 samples on 6/4/2014 10:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order: 1401031 of Page Date: 6-3-14

No # of Containers \geq Same Day Rush (auth req.) your results, place bottle to check on the status of www.aesatlanta.com Tumaround Time Request Standard 5 Business Days Next Business Day Rush TAT SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE. Visit our website 2 Business Day Rush 1 10 TAT Total # of Containers orders, etc. STATE PROGRAM (if any): REMARKS DATA PACKAGE. standard E-maile YN; Dac Standard Other standard sondard Standord Same 0000 SENDREPORT TO STONES LEGILLA LGICA. COM ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION JF DIFFERENT FROM ABOVE) Nachragor 4 bany ROJECT NAME: SITE ADDRESS: INVOICE TO. はなりか ROJECT # 52 QUOTE #: 12401 110401 S DATE/TIME 30 81.01 HILD 10.15 (See codes) D, ste 400 COURIER Composite SHIPMENT METHOD UPS MAIL VIA VIA Grab OTHER ADDRESS. Hammond 金 GREYHOUND TIME 579 042 800 (300 1400 SAMPLED 4+100+A CLIENT RECEIVED BY SIGNATURE 3-14 DATE OUT AX Z DATE/TIME hat hold fine on they Co-TURN around 40× 14154-TW-4 ale Shirt hold film on the different Torn to the different Torn SAMPLE ID Brown & Caldwell 4154, TW-37 7-07-1615 のナスト・ 1 CP 1 DUP **JELINQUISHED BY** + · Mc AMPLED BY HONE 13 10 33 14 0

W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water GW = Groundwater SE = Sediment SO = Soil SW = Surface Water TOTA CODES A = Air

O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client H+1= Hydrochloric acid+ ice | = Ice only N = Nitric acid 8+1 = Sulfuric acid+ ice 8/M+1 = Sodium Bisulfate/Methanol+ ice (VATIVE CODES:

Client: BROWN AND CALDWELL

Project: MacGregor Golf Case Narrative

Date:

10-Jun-14

Lab ID: 1406217

Sample Receiving Nonconformance:

Sample [1406217-004B] was received outside EPA/Method specified holding time of [24 hours] for method [7196_W]. Proceed per Sarah Jones email 6/4.

Client:BROWN AND CALDWELLClient Sample ID:14154-TW-40Project Name:MacGregor GolfCollection Date:6/3/2014 4:25:00 PM

Lab ID:1406217-001Matrix:Groundwater

Analyses	Result	Reporting Limit Qu	al Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A						
Chromium as Cr+3	BRL	0.0100	mg/L	R269092	1	06/04/2014 11:30	EH
Chromium, Hexavalent	BRL	0.0100	mg/L	R269092	1	06/04/2014 11:30	EH
METALS, TOTAL SW6010C			(SV	/3010A)			
Chromium	BRL	0.0100	mg/L	191980	1	06/05/2014 17:49	JL

Date:

10-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client:BROWN AND CALDWELLClient Sample ID:14154-TW-41Project Name:MacGregor GolfCollection Date:6/3/2014 2:25:00 PM

Lab ID: 1406217-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0115	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
Chromium, Hexavalent	0.0370	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0485	0.0100		mg/L	191980	1	06/04/2014 17:30	JL

Date:

10-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14154-TW-37

Project Name: MacGregor Golf Collection Date: 6/3/2014 12:40:00 PM

Lab ID: 1406217-003 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0145	0.0100		mg/L	191980	1	06/05/2014 17:56	ЛL

Date:

10-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14154-TW-36

Project Name: MacGregor Golf Collection Date: 6/3/2014 10:05:00 AM

Lab ID: 1406217-004 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0124	0.0100	Н	mg/L	R269092	1	06/04/2014 11:30	EH
Chromium, Hexavalent	0.0281	0.0100	Н	mg/L	R269092	1	06/04/2014 11:30	EH
METALS, TOTAL SW6010C				(SV	V3010A)			
Chromium	0.0405	0.0100		mg/L	191980	1	06/05/2014 17:59	JL

Date:

10-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14154-DUP

Project Name: MacGregor Golf Collection Date: 6/3/2014 2:00:00 PM

Lab ID: 1406217-005 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	06A							
Chromium as Cr+3	0.0123	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
Chromium, Hexavalent	0.0375	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0498	0.0100		mg/L	191980	1	06/05/2014 18:03	JL

Date:

10-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14154-EB

Project Name: MacGregor Golf Collection Date: 6/3/2014 1:00:00 PM

Lab ID:1406217-006Matrix:Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R269092	1	06/04/2014 11:30	EH
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	BRL	0.0100		mg/L	191980	1	06/05/2014 18:07	JL

Date:

10-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Orde	r Number 1406217
Checklist completed by Signature Date	1/14		
Carrier name: FedEx 1/UPS Courier Client US	S Mail _ Othe	r	_
Shipping container/cooler in good condition?	Yes _	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present
Custody seals intact on sample bottles?	Yes V	No	Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes V	No	
Cooler #1 3.2°C Cooler #2 Cooler #3	Cooler #4	Co	oler#5 Cooler #6
Chain of custody present?	Yes /	No _	
Chain of custody signed when relinquished and received?	Yes X	No _	
Chain of custody agrees with sample labels?	Yes	No	
Samples in proper container/bottle?	Yes 🖊	No _	
Sample containers intact?	Yes _	No	
Sufficient sample volume for indicated test?	Yes V	No _	
All samples received within holding time?	Yes	No 🗸	
Was TAT marked on the COC?	Yes V	No _	
Proceed with Standard TAT as per project history?	Yes	No	Not Applicable 1
Water - VOA vials have zero headspace? No VOA vials so	ubmitted	Yes _	No
Water - pH acceptable upon receipt?	Yes _	No	Not Applicable
Adjusted?	Che	cked by	gn
Sample Condition: Good V Other(Explain)			
(For diffusive samples or AIHA lead) Is a known blank inclu-	ded? Yes		No /

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1406217

Dates Report

Date: 10-Jun-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1406217-001A	14154-TW-40	6/3/2014 4:25:00PM	Groundwater	TOTAL METALS BY ICP		06/05/2014	06/05/2014
1406217-001B	14154-TW-40	6/3/2014 4:25:00PM	Groundwater	Hexavalent Chromium			06/04/2014
1406217-002A	14154-TW-41	6/3/2014 2:25:00PM	Groundwater	TOTAL METALS BY ICP		06/04/2014	06/04/2014
1406217-002B	14154-TW-41	6/3/2014 2:25:00PM	Groundwater	Hexavalent Chromium			06/04/2014
1406217-003A	14154-TW-37	6/3/2014 12:40:00PM	Groundwater	TOTAL METALS BY ICP		06/05/2014	06/05/2014
1406217-003B	14154-TW-37	6/3/2014 12:40:00PM	Groundwater	Hexavalent Chromium			06/04/2014
1406217-004A	14154-TW-36	6/3/2014 10:05:00AM	Groundwater	TOTAL METALS BY ICP		06/05/2014	06/05/2014
1406217-004B	14154-TW-36	6/3/2014 10:05:00AM	Groundwater	Hexavalent Chromium			06/04/2014
1406217-005A	14154-DUP	6/3/2014 2:00:00PM	Groundwater	TOTAL METALS BY ICP		06/05/2014	06/05/2014
1406217-005B	14154-DUP	6/3/2014 2:00:00PM	Groundwater	Hexavalent Chromium			06/04/2014
1406217-006A	14154-EB	6/3/2014 1:00:00PM	Groundwater	TOTAL METALS BY ICP		06/05/2014	06/05/2014
1406217-006B	14154-EB	6/3/2014 1:00:00PM	Groundwater	Hexavalent Chromium			06/04/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1406217

ANALYTICAL QC SUMMARY REPORT

Date:

10-Jun-14

BatchID: 191980

Sample ID: MB-191980 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191980		p Date: alysis Date:	06/04/2014 06/04/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-191980 Sample Type: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191980		p Date: alysis Date:	06/04/2014 06/04/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	1.026	0.0100	1.000		103	80	120				
Sample ID: 1406171-001AMS Sample Type: MS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191980		p Date: alysis Date:	06/04/2014 06/04/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	1.023	0.0100	1.000		102	75	125				
Sample ID: 1406171-001AMSD SampleType: MSD	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 191980		p Date: alysis Date:	06/04/2014 06/04/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	1.000	0.0100	1.000		100	75	125	1.023	2.25	2	0

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

MacGregor Golf **Project Name:**

Workorder: 1406217

ANALYTICAL QC SUMMARY REPORT

BatchID: R269092

Date:

10-Jun-14

Sample ID: MB-R269092	Client ID:				Un	its: mg/L	Pre	Date:		Run No: 269092
SampleType: MBLK	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	1/2014	Seq No: 5676110
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu
Chromium, Hexavalent	BRL	0.0100								
Sample ID: LCS-R269092	Client ID:				Un	its: mg/L	Pre	Date:		Run No: 269092
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	1/2014	Seq No: 5676111
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu
Chromium, Hexavalent	0.5012	0.0100	0.5000		100	90	110			
Sample ID: 1406217-002BMS	Client ID:	14154-TW-41			Un	its: mg/L	Pre	Date:		Run No: 269092
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	1/2014	Seq No: 5676114
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu
Chromium, Hexavalent	0.5285	0.0100	0.5000	0.03700	98.3	85	115			
Sample ID: 1406217-002BMSD	Client ID:	14154-TW-41			Un	its: mg/L	Pre	Date:		Run No: 269092
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	1/2014	Seq No: 5676115
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qu
Chromium, Hexavalent	0.5395	0.0100	0.5000	0.03700	100	85	115	0.5285	2.06	20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



June 12, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1406359

Analytical Environmental Services, Inc. received 5 samples on 6/5/2014 10:00:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

VIRONMENTAL SERVICES, INC

Work Order: 1406359

CHAIN OF CUSTODY

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.... Urive, Atlanta GA 30340-3704

170) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Page Date: 6.714

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# SAMPLE ID	posit	PRESERVATION (See codes)		Į.
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94155-EB	C X offer Ming	××		N
, 14155-TW-32	x 0551	×		N
14155-12-31	1350 × 60	× ×		2
14155-TW-38	1130 X GE	X X		2
, 14155-TW-39	~ 0460 × CM	X ×		2
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NGUISHEDBY	RECEIVED BY DATE/TIME	PROJECT INFORMATION	RECEIPT	
M 6414/130	Jun 13 6/5/14/10.00	PROJECT NAME: VICE GRAM	Total# of Containers	0
	a.	PROJECT #:	Tannaround Time Request	8
	33	SITE ADDRESS:	Standard 3 Business Days	
	S	Ö	O Next Business Day Rush	
SPECIAL INSTRUCTIONS, COMMENTS: Shert hald time Total HEX!	SHIPMENT METHOD IN OUT / / VIA: (1	INVOICE TO: (IF DIFFERENT FROM ABOVE)	Same Day Rush (auth req.)	
	CLIENT GOES UPS MAIL COURIER		STATE PROGRAM (if any): E-mail? (V)N; Fax? Y(N)	
	CHILD CHILD	H DAVIEW	(

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES. A = Air GW = Groundwater SE = Sediment. SO = Soil. SW = Sulface Water W = Water (Blacks). DM = Drinking Water (Blacks). O = Other (specify). WW = Water Water

MATRIX CODES. A = Air GW = Groundwater SE = Sediment. SO = Soil. SW = Sulface will ice. SAM+1 = Soilum Busulfate/Methanol + ice. O = Other (specify). NA = None. Copy - Original: Yellow Copy - Chem.

White Copy - Original: Yellow Copy - Chem.

Client: BROWN AND CALDWELL

Project: MacGregor Golf Case Narrative

Date:

12-Jun-14

Lab ID: 1406359

Sample 1406359-001B and -005B were received out of hold. Proceed per Sarah Jones.

Client: BROWN AND CALDWELL Client Sample ID: 14155-EB

Project Name: MacGregor Golf Collection Date: 6/4/2014 9:40:00 AM

Lab ID: 1406359-001 **Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100	Н	mg/L	R269092	1	06/05/2014 11:15	EH
Chromium, Hexavalent	BRL	0.0100	Н	mg/L	R269092	1	06/05/2014 11:15	EH
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	BRL	0.0100		mg/L	192134	1	06/10/2014 18:59	JL

Date:

12-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14155-TW-32

Project Name: MacGregor Golf Collection Date: 6/4/2014 3:50:00 PM

Lab ID: 1406359-002 **Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269092	1	06/05/2014 11:15	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R269092	1	06/05/2014 11:15	EH
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	192134	1	06/10/2014 19:17	JL

Date:

12-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14155-TW-31

Project Name: MacGregor Golf Collection Date: 6/4/2014 1:50:00 PM

Lab ID: 1406359-003 **Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	0.0113	0.0100		mg/L	R269092	1	06/05/2014 11:15	EH
Chromium, Hexavalent	0.0129	0.0100		mg/L	R269092	1	06/05/2014 11:15	EH
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	0.0242	0.0100		mg/L	192134	1	06/10/2014 19:21	JL

Date:

12-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

Less than Result value
Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL Client Sample ID: 14155-TW-38

Project Name: MacGregor Golf Collection Date: 6/4/2014 11:30:00 AM

Lab ID: 1406359-004 Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269092	1	06/05/2014 11:15	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R269092	1	06/05/2014 11:15	EH
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	192134	1	06/10/2014 18:24	JL

Date:

12-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14155-TW-39

Project Name: MacGregor Golf Collection Date: 6/4/2014 9:40:00 AM

Lab ID: 1406359-005 **Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100	Н	mg/L	R269092	1	06/05/2014 11:15	EH
Chromium, Hexavalent	0.0344	0.0100	Н	mg/L	R269092	1	06/05/2014 11:15	EH
METALS, TOTAL SW6010C				(SV	V3010A)			
Chromium	0.0396	0.0100		mg/L	192134	1	06/10/2014 19:24	JL

Date:

12-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Order Number 1406359
Checklist completed by Signature Date	5/14	
Carrier name: FedExUPS Courier Client US	S Mail Other	r
Shipping container/cooler in good condition?	Yes _	No Not Present
Custody seals intact on shipping container/cooler?	Yes _	No Not Present
Custody seals intact on sample bottles?	Yes _	No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes _	No
Cooler #1 Cooler #2 Cooler #3	_ Cooler #4	Cooler#5 Cooler #6
Chain of custody present?	Yes _	No
Chain of custody signed when relinquished and received?	Yes _	No _
Chain of custody agrees with sample labels?	Yes	No _
Samples in proper container/bottle?	Yes _	No _
Sample containers intact?	Yes _	No
Sufficient sample volume for indicated test?	Yes /	No _
All samples received within holding time?	ves	No
Was TAT marked on the COC?	Yes _	No _
Proceed with Standard TAT as per project history?	Yes	No Not Applicable
Water - VOA vials have zero headspace? No VOA vials so	/	
Water - pH acceptable upon receipt?	Yes _	No Not Applicable
		cked by
Sample Condition: Good Other(Explain)		
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes	No /

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1406359

Dates Report

Date: 12-Jun-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1406359-001A	14155-EB	6/4/2014 9:40:00AM	Aqueous	TOTAL METALS BY ICP		06/10/2014	06/10/2014
1406359-001B	14155-EB	6/4/2014 9:40:00AM	Aqueous	Hexavalent Chromium			06/05/2014
1406359-002A	14155-TW-32	6/4/2014 3:50:00PM	Aqueous	TOTAL METALS BY ICP		06/10/2014	06/10/2014
1406359-002B	14155-TW-32	6/4/2014 3:50:00PM	Aqueous	Hexavalent Chromium			06/05/2014
1406359-003A	14155-TW-31	6/4/2014 1:50:00PM	Aqueous	TOTAL METALS BY ICP		06/10/2014	06/10/2014
1406359-003B	14155-TW-31	6/4/2014 1:50:00PM	Aqueous	Hexavalent Chromium			06/05/2014
1406359-004A	14155-TW-38	6/4/2014 11:30:00AM	Aqueous	TOTAL METALS BY ICP		06/10/2014	06/10/2014
1406359-004B	14155-TW-38	6/4/2014 11:30:00AM	Aqueous	Hexavalent Chromium			06/05/2014
1406359-005A	14155-TW-39	6/4/2014 9:40:00AM	Aqueous	TOTAL METALS BY ICP		06/10/2014	06/10/2014
1406359-005B	14155-TW-39	6/4/2014 9:40:00AM	Aqueous	Hexavalent Chromium			06/05/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1406359

ANALYTICAL QC SUMMARY REPORT

Date:

12-Jun-14

BatchID: 192134

Sample ID: MB-192134 SampleType: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni	ts: mg/L chID: 192134		Date: 06/1	0/2014	Run No: Seq No:	
Sample Type. WIBLK	resicoue.	METHES, TOTAL	5,,,,,,		Dav	CIIID. 192134	Alle	ilysis Date. 00/1	0/2014	seq No.	3000004
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-192134	Client ID:				Uni	ts: mg/L	Pre	Date: 06/1	0/2014	Run No:	269579
SampleType: LCS	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 192134	Ana	alysis Date: 06/1	0/2014	Seq No:	5686883
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	1.012	0.0100	1.000		101	80	120				
Sample ID: 1406359-004AMS	Client ID:	14155-TW-38			Uni	ts: mg/L	Pre	p Date: 06/1	0/2014	Run No:	269579
SampleType: MS	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 192134	Ana	alysis Date: 06/1	0/2014	Seq No:	5686892
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	0.9793	0.0100	1.000	0.004657	97.5	75	125				
Sample ID: 1406359-004AMSD	Client ID:	14155-TW-38			Uni	ts: mg/L	Pre	p Date: 06/1	0/2014	Run No:	269579
SampleType: MSD	TestCode:	METALS, TOTAL	SW6010C		Bate	chID: 192134	Ana	alysis Date: 06/1	0/2014	Seq No:	5686894
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD	Limit Qual
Chromium	0.9777	0.0100	1.000	0.004657	97.3	75	125	0.9793	0.157	2	20

Qualifiers: > Greater than Result value

BRL Below reporting limit

Rpt Lim Reporting Limit

J Estimated value detected below Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

MacGregor Golf **Project Name:**

1406359 Workorder:

ANALYTICAL QC SUMMARY REPORT

BatchID: R269092

Date:

12-Jun-14

Sample ID: MB-R269092	Client ID:				Un			p Date:		Run No: 269092	
SampleType: MBLK	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	/2014	Seq No: 5676110	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q)ual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R269092	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 269092	
SampleType: LCS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	/2014	Seq No: 5676111	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q)ual
Chromium, Hexavalent	0.5012	0.0100	0.5000		100	90	110				
Sample ID: 1406217-002BMS	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 269092	
SampleType: MS	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	/2014	Seq No: 5676114	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q)ual
Chromium, Hexavalent	0.5285	0.0100	0.5000	0.03700	98.3	85	115				
Sample ID: 1406217-002BMSD	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 269092	
SampleType: MSD	TestCode:	Hexavalent Chromium in	Water SW71	96A	Bat	tchID: R26909	2 Ana	alysis Date: 06/04	/2014	Seq No: 5676115	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Q	ual
Chromium, Hexavalent	0.5395	0.0100	0.5000	0.03700	100	85	115	0.5285	2.06	20	

Qualifiers: Greater than Result value

> BRL Below reporting limit

Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



June 13, 2014

Sarah Jones BROWN AND CALDWELL 990 Hammond Drive Atlanta GA 30328

TEL: (770) 394-2997 FAX: (770) 396-9495

RE: MacGregor Golf

Dear Sarah Jones: Order No: 1406513

Analytical Environmental Services, Inc. received 4 samples on 6/6/2014 10:05:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- -AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Tara Esbeck

Project Manager

Tara Esback

ANALYTICAL ENVIRONMENTAL SERVICES, INC

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188 3080 Presidential Drive, Atlanta GA 30340-3704

CHAIN OF CUSTODY

Work Order: 14016513

No # of Containers DATA PACKAGE: 1 (II) III IV Same Day Rush (auth req.) to check on the status of your results, place bottle www.aesatlanta.com urnaround Time Request Standard 5 Business Days E-mail? (y/N; Fax? Y/N Next Business Day Rush SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. Visit our website 2 Business Day Rush Total # of Containers orders, etc. STATE PROGRAM (if any): REMARKS Other SEND REPORT TO: SEJONPS W BY WALLY LOW ANALYSIS REQUESTED PRESERVATION (See codes) PROJECT INFORMATION () Codo IF DIFFERENT FROM ABOVE) ROJECT NAME: SITE ADDRESS: INVOICE TO: PROJECT OUOTE # ADDRESS 996 HAMMOND Dr, Ste 40 10105 Pila DATE/TIME Matrix (See codes) fedex UPS MAIL COURIER Composite AHanta, 6a 30328 SHIPMENT METHOD VIA VIA Girab OTHER 0938 TIME GREYHOUND CLEN SIGNATURE: [SAMPL RECEIVED BY 11-5-2 DATE OUT DATE/TIME Grann + (albuell SAMPLE ID PECIAL INSTRUCTIONS/COMMENTS: Us Chromium **WELINQUISHED BY** AMPLED BY: 01 27

W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES. A = Air GW = Groundwater SE = Sediment SO = Soit SW = Swrfice Water W = Water (Blanks) 11+1 = 1 second only 1 = 1 second 1 = 1 seco PRESERVATIVE CODES.

NA = None White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL

Project: MacGregor Golf Case Narrative

Date:

13-Jun-14

Lab ID: 1406513

Sample Receiving Nonconformance:

Sample [1406513-001B] was received outside EPA/Method specified holding time of [24 hours] for method [7196_W]. Proceed per Sarah Jones.

Client:BROWN AND CALDWELLClient Sample ID:14156-TW-33Project Name:MacGregor GolfCollection Date:6/5/2014 9:25:00 AM

Lab ID: 1406513-001 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW719	96A							
Chromium as Cr+3	BRL	0.0100	Н	mg/L	R269296	1	06/06/2014 11:05	AB
Chromium, Hexavalent	BRL	0.0100	Н	mg/L	R269296	1	06/06/2014 11:05	AB
METALS, TOTAL SW6010C				(SV	V3010A)			
Chromium	BRL	0.0100		mg/L	192251	1	06/12/2014 12:31	ЛL

Date:

13-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14156-DUP

Project Name: MacGregor Golf Collection Date: 6/5/2014 12:00:00 PM

Lab ID: 1406513-002 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269296	1	06/06/2014 11:05	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R269296	1	06/06/2014 11:05	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	BRL	0.0100		mg/L	192251	1	06/12/2014 12:35	JL

Date:

13-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14156-TW-34

Project Name: MacGregor Golf Collection Date: 6/5/2014 11:10:00 AM

Lab ID: 1406513-003 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW71	96A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269296	1	06/06/2014 11:05	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R269296	1	06/06/2014 11:05	AB
METALS, TOTAL SW6010C				(SW	/3010A)			
Chromium	BRL	0.0100		mg/L	192251	1	06/12/2014 12:38	ЛL

Date:

13-Jun-14

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Client: BROWN AND CALDWELL Client Sample ID: 14156-TW-35

Project Name:MacGregor GolfCollection Date:6/5/2014 3:15:00 PMLab ID:1406513-004Matrix:Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED SW6010C				(SW	V3005A)			
Chromium	BRL	0.0100		mg/L	192135	1	06/09/2014 16:12	JL
Hexavalent Chromium, Dissolved SW	7196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269295	1	06/06/2014 08:20	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R269295	1	06/06/2014 08:20	AB
Hexavalent Chromium in Water SW7	196A							
Chromium as Cr+3	BRL	0.0100		mg/L	R269296	1	06/06/2014 11:05	AB
Chromium, Hexavalent	BRL	0.0100		mg/L	R269296	1	06/06/2014 11:05	AB
METALS, TOTAL SW6010C				(SW	V3010A)			
Chromium	BRL	0.0100		mg/L	192251	1	06/12/2014 12:42	JL

Qualifiers:

* Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

Date:

13-Jun-14

S Spike Recovery outside limits due to matrix

Narr See case narrative
NC Not confirmed

< Less than Result value

Sample/Cooler Receipt Checklist

Client Brown + Caldwell		Work Orde	r Number	1406513
Checklist completed by Signature Date	10/14			
Carrier name: FedEx UPS Courier Client US	S Mail Other	r		
Shipping container/cooler in good condition?	Yes _	No _	Not Present	-/
Custody seals intact on shipping container/cooler?	Yes	No _	Not Present	_
Custody seals intact on sample bottles?	Yes _	No _	Not Present	_
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes V	No _		
Cooler #1 3.2°C Cooler #2 Cooler #3	_ Cooler #4 _	Coo	oler#5	Cooler #6
Chain of custody present?	Yes V	No _		
Chain of custody signed when relinquished and received?	Yes 🗸	No _		
Chain of custody agrees with sample labels?	Yes V	No		
Samples in proper container/bottle?	Yes V	No		
Sample containers intact?	Yes V	No		
Sufficient sample volume for indicated test?	Yes V	No		
All samples received within holding time?	Yes	No V		
Was TAT marked on the COC?	Yes V	No _		/
Proceed with Standard TAT as per project history?	Yes	No	Not Applic	cable_
Water - VOA vials have zero headspace? No VOA vials so	ubmitted 🛂	Yes _	No _	-
Water - pH acceptable upon receipt?	Yes 📝	No _	Not Applie	cable
Adjusted?	Che	cked by	am	<u> </u>
Sample Condition: Good Other(Explain)				
(For diffusive samples or AIHA lead) Is a known blank include	ded? Yes	1	No .	

See Case Narrative for resolution of the Non-Conformance.

 $\verb|L|Quality| Assurance| Checklists| Procedures Sign-Off Templates| Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checklists| Sample Receipt Checkl$

^{*} Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL

Project: MacGregor Golf

Lab Order: 1406513

Dates Report

Date: 13-Jun-14

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1406513-001A	14156-TW-33	6/5/2014 9:25:00AM	Groundwater	TOTAL METALS BY ICP		06/11/2014	06/12/2014
1406513-001B	14156-TW-33	6/5/2014 9:25:00AM	Groundwater	Hexavalent Chromium			06/06/2014
1406513-002A	14156-DUP	6/5/2014 12:00:00PM	Groundwater	TOTAL METALS BY ICP		06/11/2014	06/12/2014
1406513-002B	14156-DUP	6/5/2014 12:00:00PM	Groundwater	Hexavalent Chromium			06/06/2014
1406513-003A	14156-TW-34	6/5/2014 11:10:00AM	Groundwater	TOTAL METALS BY ICP		06/11/2014	06/12/2014
1406513-003B	14156-TW-34	6/5/2014 11:10:00AM	Groundwater	Hexavalent Chromium			06/06/2014
1406513-004A	14156-TW-35	6/5/2014 3:15:00PM	Groundwater	TOTAL METALS BY ICP		06/11/2014	06/12/2014
1406513-004B	14156-TW-35	6/5/2014 3:15:00PM	Groundwater	Hexavalent Chromium			06/06/2014
1406513-004C	14156-TW-35	6/5/2014 3:15:00PM	Groundwater	DISSOLVED METALS BY ICP		06/09/2014	06/09/2014
1406513-004D	14156-TW-35	6/5/2014 3:15:00PM	Groundwater	Hexavalent Chromium, Dissolved			06/06/2014

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1406513

ANALYTICAL QC SUMMARY REPORT

Date:

13-Jun-14

BatchID: 192135

Sample ID: MB-192135 SampleType: MBLK	Client ID: TestCode:	METALS, DISSOLVED	SW6010C		Uni Bat	ts: mg/L chID: 192135		ep Date: alysis Date:	06/09/2014 06/09/2014	Run No: Seq No:	269526 5685631
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-192135 SampleType: LCS	Client ID: TestCode:	METALS, DISSOLVED	SW6010C		Uni Bat	ts: mg/L chID: 192135		ep Date: alysis Date:	06/09/2014 06/09/2014	Run No: Seq No:	269526 5685630
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	1.005	0.0100	1.000		101	80	120				
Sample ID: 1406632-001AMS Sample Type: MS	Client ID: TestCode:	METALS, DISSOLVED	SW6010C		Uni Bat	ts: mg/L chID: 192135		ep Date: alysis Date:	06/09/2014 06/09/2014	Run No: Seq No:	269526 5685637
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	0.9381	0.0100	1.000		93.8	75	125				
Sample ID: 1406632-001AMSD SampleType: MSD	Client ID: TestCode:	METALS, DISSOLVED	SW6010C		Uni Bat	ts: mg/L chID: 192135		ep Date: alysis Date:	06/09/2014 06/09/2014	Run No: Seq No:	269526 5685638
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val %RPD	RPD	Limit Qual
Chromium	0.9492	0.0100	1.000		94.9	75	125	0.938	1 1.17		20

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

Project Name: MacGregor Golf

Workorder: 1406513

ANALYTICAL QC SUMMARY REPORT

BatchID: 192251

Date:

13-Jun-14

Sample ID: MB-192251 Sample Type: MBLK	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 192251		ep Date: 0		Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD I	Limit Qual
Chromium	BRL	0.0100									
Sample ID: LCS-192251 SampleType: LCS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 192251		1	06/11/2014 06/12/2014	Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD I	Limit Qual
Chromium	1.035	0.0100	1.000		103	80	120				
Sample ID: 1406622-001BMS SampleType: MS	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 192251		ep Date: 0 alysis Date: 0		Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD I	Limit Qual
Chromium	1.009	0.0100	1.000	0.002728	101	75	125				
Sample ID: 1406622-001BMSD SampleType: MSD	Client ID: TestCode:	METALS, TOTAL	SW6010C		Uni Bat	ts: mg/L chID: 192251		ep Date: 0 alysis Date: 0		Run No: Seq No:	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref V	/al %RPD	RPD I	Limit Qual
Chromium	0.9990	0.0100	1.000	0.002728	99.6	75	125	1.009	0.951	20)

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

MacGregor Golf **Project Name:**

Workorder: 1406513

ANALYTICAL QC SUMMARY REPORT

BatchID: R269295

Date:

13-Jun-14

Sample ID: MB-R269295	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 26	59295
SampleType: MBLK	TestCode:	Hexavalent Chromium, I	Dissolved SW7	196A	Bat	tchID: R26929	5 Ana	alysis Date: 06/06	06/06/2014 Seq No: 5680659		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPI	O RPD Li	imit Qual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R269295	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 26	59295
SampleType: LCS	TestCode:	Hexavalent Chromium, I	Dissolved SW7	196A	Bat	tchID: R26929	5 Ana	alysis Date: 06/06	5/2014	Seq No: 56	680660
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPI) RPD Li	imit Qual
Chromium, Hexavalent	0.4851	0.0100	0.5000		97.0	90	110				
Sample ID: 1406473-001CMS	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 26	59295
SampleType: MS	TestCode:	Hexavalent Chromium, I	Dissolved SW7	196A	Bat	tchID: R26929	5 Ana	alysis Date: 06/06	5/2014	Seq No: 56	680664
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPI	RPD Li	imit Qual
Chromium, Hexavalent	0.4680	0.0100	0.5000		93.6	85	115				
Sample ID: 1406473-001CMSD	Client ID:				Un	its: mg/L	Pre	p Date:		Run No: 26	59295
SampleType: MSD	TestCode:	Hexavalent Chromium, I	Dissolved SW7	196A	Bat	tchID: R26929	5 Ana	alysis Date: 06/06	5/2014	Seq No: 56	680666
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPI) RPD Li	imit Qual
Chromium, Hexavalent	0.4829	0.0100	0.5000		96.6	85	115	0.4680	3.13	20	

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Client: BROWN AND CALDWELL

MacGregor Golf **Project Name:**

Workorder: 1406513

ANALYTICAL QC SUMMARY REPORT

BatchID: R269296

Date:

13-Jun-14

Sample ID: MB-R269296 SampleType: MBLK	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	ts: mg/L chID: R26929		p Date: alysis Date: 06/06	/2014	Run No: 2 Seq No: 5	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Chromium, Hexavalent	BRL	0.0100									
Sample ID: LCS-R269296 SampleType: LCS	Client ID: TestCode:	Hexavalent Chromium in	Water SW719	96A	Uni Bat	its: mg/L chID: R26929		p Date: alysis Date: 06/06	/2014	Run No: 2 Seq No: 5	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Chromium, Hexavalent	0.4808	0.0100	0.5000		96.2	90	110				
Sample ID: 1406513-001BMS SampleType: MS		14156-TW-33 Hexavalent Chromium in	Water SW71	96A	Uni Bat	its: mg/L chID: R26929		p Date: alysis Date: 06/06	/2014	Run No: 2 Seq No: 5	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Chromium, Hexavalent	0.4766	0.0100	0.5000		95.3	85	115				Н
Sample ID: 1406513-001BMSD SampleType: MSD	Client ID: 14156-TW-33 TestCode: Hexavalent Chromium in Water SW7196A				Units: mg/L Prep Date: BatchID: R269296 Analysis Date: 06			Run No: 269296 06/2014 Seq No: 5680717			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD I	Limit Qual
Chromium, Hexavalent	0.4851	0.0100	0.5000		97.0	85	115	0.4766	1.77	20	Н

Qualifiers: Greater than Result value

> BRL Below reporting limit

Rpt Lim Reporting Limit

Estimated value detected below Reporting Limit

Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

Appendix D: Laboratory Stipulation Letter

AES

Analytical Environmental Services, Inc., 3785 Presidential Parkway Atlanta, GA 30340

Stipulation of Approval for Commercial Laboratory

According to Georgia State Law (O.C.G.A. 12-2-9) Commercial Rules for Commercial Laboratory Accreditation, any person submitting data to EPD prepared by a commercial laboratory shall stipulate that the laboratory is approved (Chapter 391-3-26-.05). The following information is provided as requested.

Laboratory	Analytical Environmental Services, Inc. (AES)				
	3785 Presidential Parkway, NE				
	Atlanta, GA 30340				
	(770) 457-8177				
Accredited By:	State of Florida, Department of Health, Bureau of Laboratories;				
	Accrediting NELAP Authority				
Accreditation ID:	E87582				
Scope:	Clean Water Act – Extractable Organics, General Chemistry,				
	Metals, Microbiology, Pesticides-Herbicides, PCBs, Volatile				
	Organics				
	RCRA/CERCLA – Extractable Organics, General Chemistry,				
	Metals, Pesticides-Herbicides, PCBs, Volatile Organics				
Effective:	July 1, 2012				
Expires:	June 30, 2013				

I further certify that the sample(s) for which this data is being submitted has been handled pursuant to the appropriate chain of custody. Any question regarding this stipulation of approval may be directed to AES at 770 457-8177. Thank you for your business and please do not hesitate contacting us if we can be of further assistance.

James Forres

Director of Project Management

September, 19 2012